Ref. No.3627 091999

ONKYO. SERVICE MANUAL

AUDIO VIDEO CONTROL RECEIVER MODEL TX-DS676



Black and Golden models

BMD	120V AC, 60Hz
BMP,BMPT,BMPA,GMPT	230V AC, 50Hz
BMWT,BMWR,GMWT	220-230V/120V
GMWR	AC, 50/60Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.



SPECIFICATIONS

AMPLIFIER SECTION

Continuous Average Power output (FTC)

All channels: 105 watts per channel min. RMS at 8

ohms, 2 channels driven from 20 Hz to 20 kHz with no more than 0.08%

total harmonic distortion.

135 watts min. RMS at 6 ohms, 2 channels driven from 1 kHz with no more than 0.1% total harmonic dis-

tortion.

Continuous Power output (DIN) 140 watts at 6 ohms Maximum Power output (EIAJ) 170 watts at 6 ohms

Total Harmonic Distortion: 0.08% at rated power (Front) IM Distortion: 0.08% at rated power (Front) Damping Factor: 60 at 8 ohms (Front)

Input Sensitivity and Impedance

PHONO:

2.5 mV, 50 kohms

LINE (CD, TAPE, DVD,

VIDEO 1, 2, 3,4):

200 mV, 50 kohms

1 Vp-p, 75 ohms

MULTICHANNEL INPUT

(FRONT L/R, SURROUND L/R, CENTER):

200 mV, 50 kohms (SUBWOOFER): 36 mV, 50 kohms COAXIAL 1, 2 (DIGITAL): 0.5 Vp-p, 75 ohms

Output Level and Impedance

Rec out (TAPE, VIDEO 1): 200 mV, 2.2 kohms Pre out: 1 V, 470 ohms

Phono Overload: 110 mV RMS at 1 kHz, 0.5% T.H.D. Frequency Response:

20 Hz to 100 kHz, +1/-3 dB(LINE INPUT) 20 Hz to 20 kHz, ±0.8 dB

RIAA Deviation:

Tone Control

Bass: ±10 dB at 100 Hz Treble: ±10 dB at 10 kHz

Signal-to-Noise Ratio

Phono: 80 dB (IHF A, 5 mV input)

CD/Tape: 100 dB (IHF A)

VIDEO SECTION

Input sensitivity/Impedance (DVD, VIDEO 1, 2, 3,4)

VIDEO (Composite):

Output Level/Impedance (VIDEO 1, MONITOR)

VIDEO (Composite): 1 Vp-p, 75 ohms TUNER SECTION

Tuning Range: 87.5 — 108.0 MHz (50 kHz steps)

Usable Sensitivity

Mono: 11.2 dBf, 1.0 µV (75 ohms IHF)

0.9 μV (75 ohms DIN)

Stereo: 17.2 dBf, 2.0 µV (75 ohms IHF)

23 μV (75 ohms DIN)

50 dB Quieting Sensitivity

Mono: 17.2 dBf, 2.0 µV (75 ohms) Stereo: $37.2 \text{ dBf}, 20 \,\mu\text{V} (75 \text{ ohms})$

Capture Ratio: 2.0 dB

Image Rejection Ratio

U.S.A. & Canadian models: 40 dB Other area models: 85 dB

IF Rejection Ratio: 90 dB

Signal-to-Noise Ratio

Mono: 76 dB Stereo: 70 dB Alternate Channel Attenuation: 55 dB Selectivity: 50 dB (DIN) AM Suppression Ratio: 50 dB

Total Harmonic Distortion

Mono: 0.2% Stereo: 0.3%

Frequency Response: 30 Hz — 15 kHz, ±1.0 dB

Stereo Separation: 45 dB at 1 kHz

30 dB at 100 Hz - 10 kHz

AM

Tuning Range

U.S.A. & Canadian models: 530-1,710 kHz (10 kHz steps) European & Australian models: 522—1,611 kHz (9 kHz steps) Worldwide models: 531-1,602 kHz (9 kHz steps),

530—1,710 kHz (10 kHz steps)

Usable Sensitivity: 30 uV Image Rejection Ratio: 40 dB IF Rejection Ratio: 40 dB Signal-to-Noise Ratio: 40 dB Total Harmonic Distortion: 0.7%

GENERAL

Power Supply: AC 120 V, 60 Hz

AC 230 V, 50 Hz

AC 220-230 V and 120 V switchable,

50/60 Hz

Power Consumption: 6.2 A

520 W

Dimensions ($W \times H \times D$): $435 \times 175 \times 453$ mm

17-1/8" × 6-7/8" × 17-13/16"

Weight:

USA & Canadian models: 16.3 kg, 35.9 lbs. Others: 17.6 kg, 38.8 lbs.

REMOTE CONTROL

Transmitter: Infrared

Signal range: Approx. 5 meters, 16 ft. Power supply: Two "AA" batteries (1.5 $V \times 2$)

Specifications and features are subject to change without notice.

Power supply and voltage vary depending on the area in which the unit is purchased.

SERVICE PROCEDURES

1. Replacing the fuses

This symbol located near the fuses indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating refer to the marking adjacent to the symbol.

Ce symbole indique que le fusible utlise est a rapide. Pour une protection permanente, n'untiliser que fusibles de meme type. Ce darnier est la qu le present symbol est appse.

CIRCUIT NO. F904	PART NO. 252199	DESCRIPTION 10A-UL, Primary <d w=""></d>
F902	252278 or	5A-SE-EAK or
	252044	5A-SE-TL250V,Primary
		<p a="" t="" w=""></p>
F903	252075 or	2.5A-SE-EAK or
	252241	2.5A-SE-TL250V,AC
		outlet <p t=""></p>
F941.F942	252160	2.5A-UL/T237,Secondary <d></d>
,	252241 or	2.5A-SE-EAK or
	252075	2.5A-SE-TL250V,Secondary
		<p a="" t="" w=""></p>

Note: <D>:120V model only <P>: European model only <T>: Asian model only <A>: Australian model only <W>: Worldwide model only

2. To initialize the unit

This device employs a microprocessor to perform various functions and operations. If interference generated by an external power supply, radio wave, or other electrical source results in accident which causes the specified operations and functions to operate abnormally.

To perform a result, please follow the procedure below.

- Press and hold down the VIDEO-1 button, then press the SPEAKER A button.
- 2.After "clear" is displayed, the preset memory and each mode stored in the memory, such as surround, are initialized and will return to the factory setting.

3. Safety-check out

(Only U.S.A. model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer. Connect the insulating-resistance tester between the plug of power supply cord and screw on the back panel.

Specifications: 3.3Mohm±10% at 500V.

4. Memory Preservation

This unit does not require memory preservation batteries. A built-in memory power back-up system preserves the contents of the memory during power failures and even when the unit is unplugged. The unit must be plugged in order to charge the back-up system.

The memory preservation period after the unit has been unplugged varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been unplugged. This period is shorter when the unit is exposed to a highly humid climate.

5.Setting the AM tuning step frequency (Wolrdwide models only)

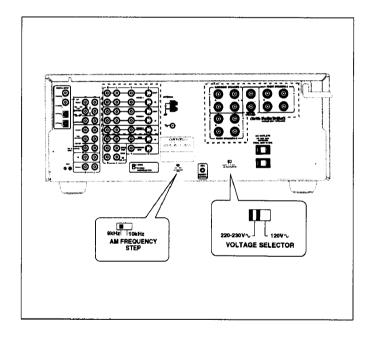
Worldwide models are equipped with a switch that controls the AM band tuning steps. Please set this switch to match the AM band tuning step frequency in your area.

U.S.A. and Canada: 10 kHz Other areas: 9 kHz

6.Setting the Voltage selector (Worldwide models only)

Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before plugging in the unit.

- Determine the proper voltage for your area: 220-230 V or 120 V.
- 2. If the preset voltage is not correct for your area, insert a screw-driver into the groove in the switch. Slide the switch all the way to the right (120 V) or to the left (220-230 V), whichever is appropriate.

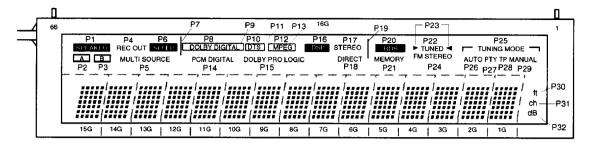


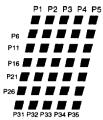
7. Changing the AM band step

With the exception of the worldwide models, a tuning step selector switch is not provided. When you change the band step, change the parts as shown below.

	To 10kHz	To 9kHz
R8085	Open	10 k
R8086	10k	Open

FL TUBE VIEW





1. How to enter into Debug mode

During press and hold DSP key, press DISPLAY key.

Then "DEBUG MODE=NO" is displayed on FL tube.

During press and hold DSP key, press DISPLAY key again.

Then "DEBUG MODE=YES" is displayed on FL tube.

		0	1	
15G,14G	Dialog normalization			
13G	DIR ERF	Digital In	No Digital In	
12G	DIR AUTODATA	PCM	AC-3	
10G,9G	DIR Address 03H	Refer to	the table 2.	
8G,7G	DIR Address 04H	Refer to	the table 3	
5G,4G	Input mode	Refer to the table 4.		
3G	Mode	Refer to	the table 5.	
2G	Surround mode	Refer to	the table 6.	

	0X		0X	2X		
X=0	Null	7	Reserved	X=0	Silent	
1	Dolby Digital	8	MPEG2 L1	1	DTS LD	
2	Reserved	9	MPEG2 L2/3	2	DTS CD	
3	Pause	a	Reserved	3	Linear PCM	
4	MPEG1 L1	b	DTS1(512)			
5	MPEG1 L2,3/MPEG2 w/o	С	DTS1(1024)	Table 4		
6	MPEG2 w/e	d	DTS1(2048)			

Table 1

	ERF	0	~AUDIO	AUTO	PEM	FS1	FS0	FS96	
	0	0	0	0	0	0	0	0	Rst
•	Table 2		Audio bit 0:Audio 1:Non audi	o	Pre-empha. output 0:Off 1:On	Sampling 00:44.1kH: 01:Off 10:48kHz 11: 32kHz		1:96kHz	_
	D7	D6	D5	D4	D3	D2	D1	D0]
	ČV	STC	CRC	LOCK	V	0	BIP	PAR	
	0	0	0	0	0	0	0	0	Rst

D3

D2

D4

0	LFE:Off
1	LFE:On
8	Dolby surround encoder:Off
9	Dolby surround encoder:ON

Table 5

Channel Status Validity

Table 3

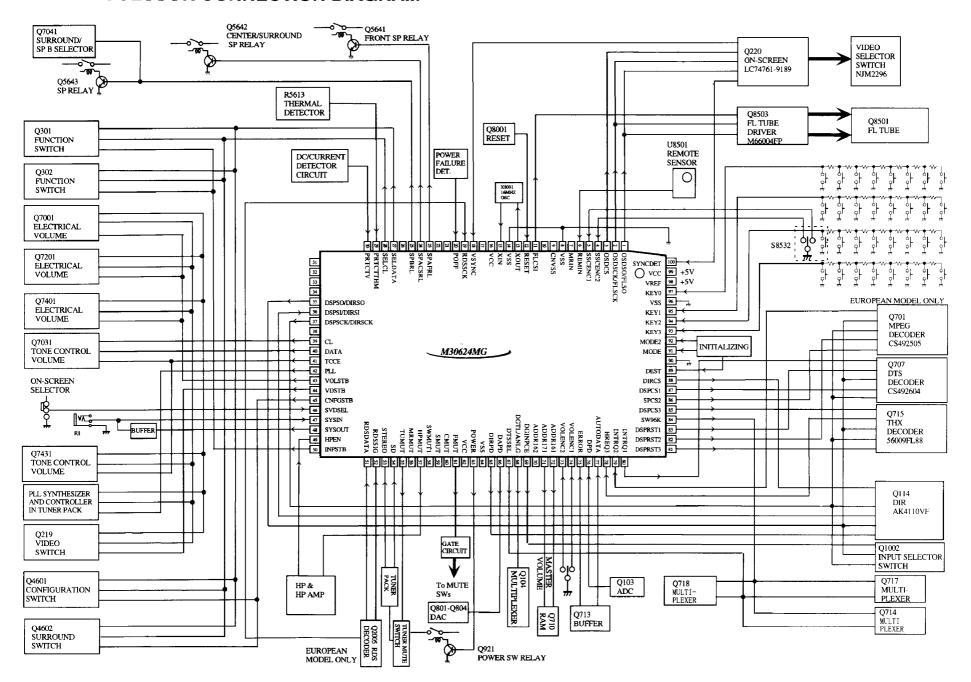
DI

D0 FS96

0:Valid

	DSP		When DTS		When DTS			
0	1+1	0	Mono	8	L+R+SL+SR			
1	1/0	1	Dual Mono	9	C+L+R+SL+SR			
2	2/0	2	L+R	a	CL+CR+L+R+SL+SR			
3	3/0	3	(L+R)+(L-R)	b	C+L+R+SL+LR+RR+0V			
4	2/1	4	Lt+Rt	С	CF+CR+LF+RF+LR+RR			
5	3/1	5	C+L+R	d	CL+C+CR+L+R+SL+SR			
6	3/2	6	L+R+S	e	CL+CR+L+R+SL1+SL2+SR1+SR2			
		7	C+L+R+S	f	CL+C+CR+L+R+SL+S+SR			

MICROPROCESSOR CONNECTION DIAGRAM



MICROPROCESSOR TERMINAL DESCRIPTIONS

PIN NO	SYMBOL	1/0	DESCRIPTION	1=			:Negative logi
1	OSDSO/FLSO	10	Serial data output pin to OSD and Fluorescent tube driver ICs.		SYMBOL	1/0	DESCRIPTION
2	OSDSCK/FLSCK	ŏ	Serial clock output pin to OSD and Fluorescent tube driver ICs. Serial clock output pin to OSD and Fluorescent tube driver ICs.	51	RDSDATA		Data input pin from RDS decoder
3	OSDCS		Chip select output pin to OSD IC.	52	RDSSIG		Signal input pin from RDS decoder
4	SSCENC2	1 ř	Rotary encoder input pin for SSC.	53	~STEREO		Detection input pin for FM STEREO broadcast
5	SSCENC1	 	Rotary encoder input pin for SSC.	54	~SD		Detection input pin for the broadcast
6	~REMIN	 	Signal input pin from remote controller	55	TUMUT	0	Muting control output pin for FM section
7	~MRIN	Τ÷	Signal input pin from remote controller for Multi room	56	MRMUT	0	Muting control output pin for multi room section
8	VSS	+	Ground pin	57	HPMUT	0	Muting control output pin for headphone section
9	VSS	+	Ground pin	58	SWMUT1	0	Muting control output pin for super woofer 1
10	1.00	\vdash	dround pin	59	SMUT	0	Muting control output pin for surround channel
11	FLCSI	0	Chip select output pin to OSD IC.	60	CMUT	0	Muting control output pin for center channel
12	RESET	1 7		61	FMUT	0	Muting control output pin for front channel
13	XOUT	<u> </u>	Microprocessor reset input pin	62	VCC		Power supply pin
14	VSS	1 7	Oscillator circuit output pin for main clock Ground pin	63	POWER	0	Power source relay control output pin
15	XIN	++		64_	VSS		Ground pin
16	VCC	+ ;-	Oscillator circuit input pin for main clock	65	~DIRPD	0	Power down signal output pin for DIR IC
17	1.00	 	Power supply pin	66	~DAPD	0	Reset output pin for D/A converter.
18	VSYNC	 -	Vadiata a sala	67	DTSSEL	0	DSP switching output pin for DTS/MPEG2 decoder.
19	~RDSSCK	 	Vertical synchronizing signal input pin	68	DGTL/ANLG	0	Digital/Analog select pin. Digital at the low level.
20	POFF	 	Clock input pin from RDS decoder	69	DGINPCE	0	Chip enable output pin for digital input selector IC LC7824.
21	I OFF	┼-	Power failure detection input pin	70	ADDR162	0	ADDR 16 output pin to DSP of MPEG2 decoder
22	<u> </u>	 		71	ADDR171	0	ADDR 17 output pin to DTS decoder
23	SPAFRL	 _		72	ADDR161	0	ADDR 16 output pin to DTS decoder
24	SPACSRL	0	Speaker A relay control output pin for front channel	73	VOLENC2	ī	Rotary encoder input pin for volume
25	SPBRL	0	Speaker A relay control output pin for center and surround channels	74	VOLENC1	Ī	Rotary encoder input pin for volume
26	SPBRL	0	Speaker B relay control output pin	75	ERROR	ī	Lock error signal input pin for DIR
	SELDATA			76	DPD		Reset signal output pin for A/D converter
	SELCL	0	Data output pin to function switch ICs	77	AUTODATA		AUTODATA signal input pin for DSP.
		0	Clock output pin to function switch ICs	78	~HREQ3		HREQ input pin from the surround DSP
	PRTCTTHM PRTCTV	<u> </u>	Detection input pin for Thermal protector	79	~INTRQ2	1 1	INTRQ input pin from DSP of MPEG2 decoder
31	PRICIV	_ !	Detection input pin for Current and voltage protector	80	~INTRQ1	0	INTRQ input pin from DTS decoder
32				81	DSPRST3	0	Reset signal output pin to the surround DSP
33				82	DSPRST2	_	Reset signal output pin to DSP of MPEG2 decoder
34				83	DSPRST1	0	Reset signal output pin to the DTS decoder
_	DODGO (DIDGO			84	~SW96K	ō	Signal pass select pin when PCM 96kHz
	DSPSO/DIRSO	_0	Serial data output pin to DSP and DIR ICs.	85	DSPCS3	0	Chip select output pin to the surround DSP
	DSPSI/DIRSI	_!	Serial data input pin from DSP and DIR ICs.	86	~DSPCS2	0	Chip select output pin to DSP of MPEG2 decoder
	DSPSCK/DIRSCK	-0-1	Serial clock output pin to DSP and DIR ICs.	87	~DSPCS1	0	Chip select output pin to the DTS decoder
38	01			88	~DIRCS	_	Chip select output pin to DIR
	CL	<u> </u>	Serial clock output pin to the function switch and Electro volume ICs.	-89	DEST	ī	Initializing input pin
	DATA	<u>o</u>	Serial data output pin to the function switch and Electro volume ICs.	90			a pos par
	TCCE	0	Chip enable output pin for the tone control IC TC9184P.		MODE		Mode input pin
	PLL	_0_1	Serial data latch output pin for PLL IC on the tuner pack		MODE2		Mode 2 input pin
	VOLSTB	0	Strobe output pin for the Electro volume .IC		KEY3	- 	Operation key connection pin 3
	VDSTB	0	Strobe output pin for the function switch ICs	+	KEY2	- i -	Operation key connection pin 3
	CNFGSTB	<u> </u>	Strobe output pin for the function switch ICs		KEY1	- ; -	Operation key connection pin 2
$\overline{}$	SVDSEL	:	S/Composite video select		vss	-i	Power supply pin for A/D converter
	SYSIN	:	System code input pin		KEY0	- 	Operation key connection viv 0
	SYSOUT	0 :	System code output pin		VREF	- 	Operation key connection pin 0
	HPEN INPSTB		Detection input pin to insert the headphone jack.		VCC	-; +	Reference voltage pin for A/D converter Power supply pin for A/D converter
50 li		o Is	Strobe output pi of input select ICs.				

CAUTION: Replacement of the transistor of mark *, if necessary, must be made from the same beta group (HFE) as the original type.

PRINTED CIRCUIT BOARD-PARTS LIST

POWER AMPI	JEJER PC BO	ARD	(NAAF-6600-3A/3B)				NP-No spans parts
CIRCUIT NO.	PART NO.	AKD	DESCRIPTION	CIRCUIT NO.	PART NO.		NP:No spare parts DESCRIPTION
	Transistors		D B301 u 1101.	circoii no.	Transistors		DESCRIPTION
Q5001,Q5002	2210755,	*	2SC1775A-E,	Q5641,Q5642	2212115,		2SC2458-GR,
Q5101,Q5102	2210756,	*	2SC1775A-F,		2213284 or		2SC1740S-R or
Q5201,Q5202	2211732 or	*	2SC1845-F or		2215864	NP	KTC3199-GR
Q5301,Q5302	2211733	*	2SC1845-E	Q5643	2213640,		DTC123JS,
Q5003,Q5103	2210755,		2SC1775A-E,		2214660 or		RN1205 or
Q5203,Q5303	2210756,		2SC1775A-F,		2215830	NP	KRC105M
Q5403	2211732 or		2SC1845-F or	Q5646	2211792 or		2SA992-F or
Q5644,Q5645	2211733		2SC1845-E		2211793		2SA992-E
Q5004,Q5104	2212115,		2SC2458-GR,	D5001,D5101	223163 or		1SS133 or
Q5204,Q5304	2213284 or	NID	2SC1740S-R or	D5201,D5301	223205		1SS270A
Q5404	2215864	NP	KTC3199-GR	D5401	223163 or		1SS133 or
Q5005-Q5007 Q5105-Q5107	2211353,		28A949-O,	D5601-D5607	223205		1SS270A
Q5103-Q5107 Q5205-Q5207	2211354,	NID	2SA949-Y,	D5608	224471303		MTZJ13C,Zener
Q3203-Q3207	2215843 or 2215844		KTA1024-O or KTA1024-Y	D5643,D5644	223163 or		ISS133 or
Q5008,Q5108	2211633,	141	2SC2229-O,	D5647	223205 224470512		1SS270A MTZJ5.1B,Zener
Q5208	2211634,		2SC2229-Y,	D3047	Coils		WITZJJ. IB, Zellel
Q3200	2215853 or	NP	KTC3206-O or	L5201,L5301	231176		S-1.3C <p t="" w=""></p>
	2215854	NP		23201,23301	Capacitors		5-1.5C 4717W2
Q5209	2213284		2SC1740S-R	C5001,C5101	393884707		47 μ F,50V,Elect.
Q5210,Q5310	2213354 or		2SA933S-R or	C5004,C5104	354742219		220 μ F, 16V, Elect.
	2215975	NP	KTA1266-GR	C5005,C5105	354722219		220 μ F,6.3V,Elect.
Q5212	2211353,		2SA949-O,	C5010,C5110	354781009		10 μ F,50V,Elect.
	2211354 or		2SA949-Y or	C5017,C5018	354774709		47 μ F,63V,Elect.
	2215843	NP	KTA1024-O	C5117,C5118	354774709		47 μ F,63V,Elect.
Q5213,Q5313	2203010 or	*	2SC5171 or	C5201,C5301	354784709		47 μ F,50V,Elect.
	2203434	NP	KTD2061-Y	C5204,C5304	354742219		220 µ F,16V,Elect.
Q5214,Q5314	2203000 or	*	2SA1930 or	C5205,C5305	354722219		220 μ F,6.3V,Elect.
	2203424	NP	KTB1369-Y	C5210,C5212	354781009		10 μ F,50V,Elect.
Q5215,Q5315	2202843,	*	2SC5242-O,	C5213,C5313	374721034		0.01 μ F±5%,50V,Plastic
	2202842,	*	2SC5242-R,	C5214,C5314	374724734		0.047 µ F±5%,50V,Plastic
	2201653,	*	2SC3856-O,	C5215-C5218	354774709		47 μ F,63 V,Elect.
	2201655 or	*	2SC3856-P or	C5310,C5312	354781009		10 μ F,50V,Elect.
	2201654	*	2SC3856-Y	C5315-C5318	354774709		47 μ F,63V,Elect.
Q5216,Q5316	2202833,	*	2SA1962-O,	C5401	393884707		47 μ F,50V,Elect.
	2202832,	*	2\$A1962-R,	C5404	354742219		220 μ F,16V,Elect.
	2201663,	*	2SA1492-O,	C5405,C5645	354722219		220 μ F,6.3V,Elect.
	2201665 or 2201664	*	2SA1492-P or 2SA1492-Y	C5410	354781009 354774709		10 μ F,50V,Elect.
Q5217,Q5317	2214984 or		2SC2631-R or	C5417,C5418 C5601-C5603	3547/4709		47 μ F,63 V,Elect.
Q3217,Q3317	2214985		2SC2631-S	C5646	354741009		100 μ F,35V,Elect. 10 μ F,16V,Elect.
Q5219,Q5319	2212863 or		2SC3419-O or	C5650	354780109		1 μ F,50V,Elect.
Q -2-17, Q -2-17	2212864		2SC3419-Y	C 3030	Resistors		T M T ,50 T , LIGHT.
Q5305-Q5307	2211353,		2SA949-O,	R5014,R5015	443521014		100 Ω±5%,1/2W,Metal oxide
Q5405-Q5407	2211354,		2SA949-Y,	R5017,R5117	443526804		68 Ω ±5%, 1/2W, Metal oxide
-	2215843 or	NP	KTA1024-O or	R5018,R5019	443521014		100 Ω±5%,1/2W,Metal oxide
	2215844	NP		R5114,R5115	443521014		100 Ω ±5%,1/2W,Metal oxide
Q5308	2211633,		2SC2229-O,	R5118,R5119	443521014		100 Ω ±5%,1/2W,Metal oxide
Q5408	2211634 or		2SC2229-Y or	R5214,R5215	443521014		$100 \Omega \pm 5\%, 1/2$ W, Metal oxide
	2215853	NP	KTC3206-O	R5217,R5317	443526804		$68 \Omega \pm 5\%$, 1/2W, Metal oxide
Q5309	2213284		2SC1740S-R	R5218,R5219	443521014		$100 \Omega \pm 5\%$, 1/2W, Metal oxide
Q5401,Q5402	2210755,	*	2SC1775A-E,	R5222,R5322	5210290		N06HR4.7KBE,Trimming
	2210756,	*	2SC1775A-F,	R5226	443524714		$470 \Omega \pm 5\%$, l/2W, Metal oxide
	2211732 or	*	2SC1845-F or	R5229,R5329	443521514		$150 \Omega \pm 5\%$, 1/2W, Metal oxide
	2211733	*	2SC1845-E	R5230,R5231	453530224		$2.2 \Omega \pm 5\%$, $1/2$ W, Metal
Q5601	2212445		2SK365-GR	R5232,R5332	4000132 or		0.22 Ω *2,5.5W or
Q5602-Q5604	2212115,		2SC2458-GR,		4500245		0.22 Q *2,5.5W,Metal plate
	2213284 or		2SC1740S-R or	R5240,R5340	453630824		8.2 Ω±5%,1W,Metal
05/05 05/0/	2215864	NP	KTC3199-GR	R5241,R5242	453530224		2.2 Ω±5%,1/2W,Metal
Q5605,Q5606	221282,		DTC144ES,	R5314,R5315	443521014		100 Ω±5%,1/2W,Metal oxide
	2213560 or), ID	RN1204 or	R5318,R5319	443521014		100 Ω±5%,1/2W,Metal oxide
Q5607	2215820 2202115 or	Νľ	KRC104M	R5330,R5331	453530224		2.2 Ω±5%,1/2W,Metal
25001	2202115 or 2202116		2SD2061-E or 2SD2061-F	R5341,R5342	453530224		2.2 Ω±5%,1/2W,Metal 100 Ω±5%,1/2W,Metal oxide
	2202110		202001-1	R5414,R5415	443521014		100 m 10 /0,1/4 W ,IVICIBL UXIDE

CAUTION: Replacement of the transistor of mark *, if necessary, must be made from the same beta group (HFE) as the original type.

CIRCUIT NO.	PART NO. Resistors	DESCRIPTION	CIRCUIT NO.	PART NO. Capacitors	DESCRIPTION
R5417	443526804	68 Ω±5%, 1/2W, Metal oxide	C5423	354781009	10 μ F,50V,Elect.
R5418,R5419	443521014	100 Ω ±5%,1/2W,Metal oxide	C5623,C5624	3504353	15000 μ F,63V,Elect.
R5643,R5644	453530224	2.2 Q ±5%,1/2W,Metal		Resistors	
	Relays		R5022,R5122	5210261	N06HR5KBC, Trimming
RL5643,RL5644	25065517,	NRL-2P5A-DC24-098,	R5029,R5129	443521514	$150 \Omega \pm 5\%, 1/2W$, Metal oxide
	25065563 or	NRL-2P5A-DC24-129 or	R5030,R5031	453530224	2.2 Q±5%, 1/2W, Metal
	25065586	NRL-2P5A-DC24-142	R5032,R5132	4000132 or	0.22 Ω *2,5.5W or
	Plugs		R5432	4500245	0.22 Ω *2,5.5W,Metal plate
JL5623B	25055628	NPLG-7P590	R5040	453630824	8.2 Ω ±5%, 1W, Metal
P5201,P5301	25055038	NPLG-2P29	R5130,R5131	453530224	2.2 Ω±5%, 1/2W, Metal
P5638	25055099	NPLG-2P83	R5140,R5440	453630824	8.2 Ω±5%,1W,Metal
P5641,P5642	25055038	NPLG-2P29	R5422	5210261	N06HR5KBC, Trimming
II scaap	Sockets	NACT TROS	R5429	443521514	150 Q±5%,1/2W,Metal oxide
Л.5622B	25050271	NSCT-7P99	R5430,R5431	453530224	2.2 Ω±5%,1/2W,Metal
Л.5624В	25050267	NSCT-3P95	DI 6641	Relays	NDL 2054 DC24 120
JL5625A P3011A	25051088	NSCT-4P875	RL5641	25065563,	NRL-2P5A-DC24-129,
P5002B,P5402B	200B3381830U 25051426	L NSAS-18P0729 NSCT-4P1213		25065517 or 25065586	NRL-2P5A-DC24-098 or NRL-2P5A-DC24-142
P5102B	25051427	NSCT-5P1214	RL5642	25065574	NRL-1P5A-DC24-134
P5633B	25051428	NSCT-6P1215	RE3042	Plugs	NRL-11 3A-DC24-134
P5634A	2009990550UL	NSAS-8P0727	P5001,P5101	25055038	NPLG-2P29
	Clamp		P5002A,P5402A		NPLG-4P739
P5611	260224	CP-1S	P5102A	25055784	NPLG-5P740
			P5401	25055038	NPLG-2P29
FRONT/CENTE	R POWER AMP	LIFIER PC BOARD	P5633A	25055785	NPLG-6P741
(NAAF-6601-3A	/3B)			Sockets	
CIRCUIT NO.	PART NO.	DESCRIPTION	JL5621A	25051110	NSCT-6P897
	Transistors		JL5622A	25051111	NSCT-7P898
Q5009	2213284	2SC1740S-R	JL5624A	25051107	NSCT-3P894
Q5010,Q5110	2213354 or	2SA933S-R or	P5631A	2009990549UL	NSAS-12P0726
Q5410		IP KTA1266-GR	P5635A	2009990551UL	NSAS-4P0728
Q5013,Q5113 Q5413		2SC5171 or IP KTD2061-Y	THEDMAI DET	ECTOD DC DOAE	ID (NA ETC ((02 2 A /2 D)
Q5413 Q5014,Q5114	2203000 or *		CIRCUIT NO.	PART NO.	LD (NAETC-6602-3A/3B) DESCRIPTION
Q5414		IP KTB1369-Y	R5613	4000150	PTH9M04BC222TS2F333,Thermistor
Q5015,Q5115	2202843,		R5614	4000153	PTH9M04BF222TS2F333, Thermister
Q5415	2202842, *	·	JL5625B	25051088	NSCT-4P875,Socket
	2201653, *	·			,
	2201655 or *	2SC3856-P or	SECONDARY C	IRCUIT PC BOAR	D (NAETC-6606-3A/3B)
	2201654 *	2SC3856-Y	CIRCUIT NO.	PART NO.	DESCRIPTION
Q5016,Q5116	2202833, *	2SA1962-O,	C941,C942	374731044	0.1 μ F±5%,100V,Plastic capacitor
Q5416	2202832, *	2SA1962-R,	R941,R942	453530104	1 Ω±5%,1/2W,Metal resistor
	2201663, *	2SA1492-O,	JL5621B	25051110	NSCT-6P897,Socket
	2201665 or *	2SA1492-P or	Л.94 2 В	25050286	NSCT-9P114,Socket
05017 05117	2201664 *	2SA1492-Y	P5612	260224	CP-1S,Clamp
Q5017,Q5117	2214984 or	2SC2631-R or	Dep cincula p	C BOARD GIADC	((00 2 A (2D))
Q5417 Q5019,Q5119	2214985 2212863 or *	2SC2631-S 2SC3419-O or	CIRCUIT NO.	C BOARD (NADG PART NO.	DESCRIPTION
Q5419	2212863 Gi	2SC3419-Y	CIRCUIT NO.	ICs	DESCRIPTION
Q5109,Q5409	2213284	2SC1740S-R	Q1002	22241416	LC7824
Q+107 Q+107	Diodes	2551. 105 R	Q101,Q102	22241383R2	NJM4565M-D
D5621	22380273	RS804M	Q103	22241361R2	AK5383VS
D5641,D5642	223163 or	1SS133 or	Q104	22274157ER2TO	TC74VHC157FT
D5645,D5646	223205	1SS270A	Q114	22241338R2	AK4110VF
	Coils		Q115	222740046R2TO	TC74HCU04F
L5001,L5101				2224126800	CRAOSERS OF
	231176	S-1.3C <p t="" w=""></p>	Q701	22241358R9	CS492505-CL
L5401		S-1.3C <p t="" w=""> S-1.3C <p t="" w=""></p></p>	Q701 Q705	222741358R9 22274125ER2TO	TC74VHC125FT
L5401	231176		Q705 Q707		
C5012,C5112	231176 231176 Capacitors 354781009	S-1.3C <p t="" w=""> 10 μ F,50V,Elect.</p>	Q705 Q707 Q708,Q709	22274125ER2TO 22241340R9 22274574ER2TO	TC74VHC125FT
C5012,C5112 C5013,C5113	231176 231176 Capacitors 354781009 374721034	S-1.3C <p t="" w=""> $10 \mu \text{ F,50V,Elect.}$ $0.01 \mu \text{ F±5\%,50V,Plastic}$</p>	Q705 Q707 Q708,Q709 Q710	22274125ER2TO 22241340R9 22274574ER2TO 22241415R2	TC74VHC125FT CS492604-CL TC74VHC574FT LC372100PF10-K34-TLM
C5012,C5112 C5013,C5113 C5014,C5114	231176 231176 Capacitors 354781009 374721034 374724734	S-1.3C <p t="" w=""> 10 μ F,50V,Elect. 0.01 μ F±5%,50V,Plastic 0.047 μ F±5%,50V,Plastic</p>	Q705 Q707 Q708,Q709 Q710 Q711	22274125ER2TO 22241340R9 22274574ER2TO 22241415R2 22274157ER2TO	TC74VHC125FT CS492604-CL TC74VHC574FT LC372100PF10-K34-TLM TC74VHC157FT
C5012,C5112 C5013,C5113 C5014,C5114 C5023,C5123	231176 231176 Capacitors 354781009 374721034 374724734 354781009	S-1.3C <p t="" w=""> $10 \mu \text{ F,50V,Elect.}$ $0.01 \mu \text{ F±5\%,50V,Plastic}$ $0.047 \mu \text{ F±5\%,50V,Plastic}$ $10 \mu \text{ F,50V,Elect.}$</p>	Q705 Q707 Q708,Q709 Q710 Q711 Q713	22274125ER2TO 22241340R9 22274574ER2TO 22241415R2 22274157ER2TO 22274244ER2TO	TC74VHC125FT CS492604-CL TC74VHC574FT LC372100PF10-K34-TLM TC74VHC157FT TC74VHC244FT
C5012,C5112 C5013,C5113 C5014,C5114 C5023,C5123 C5412	231176 231176 Capacitors 354781009 374721034 374724734 354781009 354781009	S-1.3C <p t="" w=""> $10 \mu \text{ F,50V,Elect.}$ $0.01 \mu \text{ F±5\%,50V,Plastic}$ $0.047 \mu \text{ F±5\%,50V,Plastic}$ $10 \mu \text{ F,50V,Elect.}$ $10 \mu \text{ F,50V,Elect.}$</p>	Q705 Q707 Q708,Q709 Q710 Q711 Q713 Q714,Q717,Q718	22274125ER2TO 22241340R9 22274574ER2TO 22241415R2 22274157ER2TO 22274244ER2TO 22274153ER2TO	TC74VHC125FT CS492604-CL TC74VHC574FT LC372100PF10-K34-TLM TC74VHC157FT TC74VHC244FT TC74VHC153FT
C5012,C5112 C5013,C5113 C5014,C5114 C5023,C5123	231176 231176 Capacitors 354781009 374721034 374724734 354781009	S-1.3C <p t="" w=""> $10 \mu \text{ F,50V,Elect.}$ $0.01 \mu \text{ F±5\%,50V,Plastic}$ $0.047 \mu \text{ F±5\%,50V,Plastic}$ $10 \mu \text{ F,50V,Elect.}$</p>	Q705 Q707 Q708,Q709 Q710 Q711 Q713	22274125ER2TO 22241340R9 22274574ER2TO 22241415R2 22274157ER2TO 22274244ER2TO	TC74VHC125FT CS492604-CL TC74VHC574FT LC372100PF10-K34-TLM TC74VHC157FT TC74VHC244FT

			L.,		
CIRCUIT NO.	PART NO. Photo couplers	DESCRIPTION	CIRCUIT NO.	PART NO. Relay	DESCRIPTION
U1003,U1004	24120037	TORX178A	RL901	25065584, 🛕	NRL-1P10A-DC12-140,
	Crystal			25065248, 🛕	NRL-1P15A-DC12-29,
X101	3010320	AT-49 12.288MHz		25065516 or 🛆	NRL-1P10A-DC12-097 or
	Diodes			25065588	NRL-1P10A-DC12-143 <d w=""></d>
D1002,D1003	224490330R2	UDZ3.3B		25065561, 🛕	NRL-1P5A-DC12-127,
D101-D112	223234R2 or	1SS352 or		25065508, 🛕	NRL-1P10A-DC12-093,
D701,D702	223233R1	1SS355		25065515 or 🛕	NRL-1P5A-DC12-096 or
	Coils			25065526 ⚠	NRL-1P5A-DC12-102 <p a="" t=""></p>
L1001-L1003	231237M022R2	NCH-1471		Switch	
L101	231237M022R2	NCH-1471	S901	25065437 🛕	NSS-22157P <w></w>
L103	230921R2	BLM21B222SPT		Fuse holders	
L108-L110	231237M022R2	NCH-1471	F911,F912	25052133	NSCT-1P2031 <d w=""></d>
L701,L702	231237M022R2	NCH-1471 <p a="" t="" w=""></p>	F915,F916	25052133	NSCT-1P2031 <p a="" t="" w=""></p>
L703-L705	231237M022R2	NCH-1471	F917,F918	25052133	NSCT-1P2031 <p t=""></p>
L801,L802	231237M022R2	NCH-1471		Label	
R117,R118	230948R2	BLM21A102F	F902a	29361938	Fuse <p a="" t="" w=""></p>
R122,R125	230921R2	BLM21B222SPT	_	Plug	
R127,R131	230921R2	BLM21B222SPT	P901a	25055675	NPLG-2P631
R797,R798	230948R2	BLM21A102F		Sockets	
CLOOK	Capacitors	47 F (0117)	Л_9051Ь	25050267	NSCT-3P95
C1005	356724709R2	47 μ F,6.3V,Elect.	P902	25051126	NSCT-4P913 <d></d>
C101,C102	356724709R2	47 μ F,6.3V,Elect.		25051125 🛕	NSCT-4P912 <p t="" w=""></p>
C107-C110	356741009R2	10 μ F,16V,Elect.	D00*	Fuses	<u> </u>
C118 C120,C148	356724709R1	47 μ F,6.3V,Elect.	F902	252244 or 🛕	5A-SE-TL250Vor
C158	356724709R2 356724709R2	47 μ F,6.3V,Elect.	F003	252078	5A-SE-EAK,Fuse <p a="" r="" t="" w=""></p>
C719	356721019R2	47 μ F,6.3V,Elect.	F903	252241 or A	2.5A-SE-TL250Vor
C734,C735	356724709R1	100 μ F,6.3V,Elect.	E004	252075	2.5A-SE-EAK,Fuse <p t=""></p>
C737,C738	356724709R1	47 μ F,6.3V,Elect. <p a="" t="" w=""> 47 μ F,6.3V,Elect.</p>	F904	252199	10A-UL,Fuse <d r="" w=""></d>
C742	356724709R2	$47 \mu \text{ F,6.3V,Elect.}$	INDIIT TEDMI	NAL DC BOADD (NAAF-6611-3A/3B/3C/3D)
C801-C803	356724709R2	$47 \mu \text{ F,6.3V,Elect.}$	CIRCUIT NO.	PART NO.	DESCRIPTION
C814,C816	356724709R2	47 μ F,6.3V,Elect.	CIRCUIT NO.	ICs	DESCRIPTION
C818,C820	356724709R2	47 μ F,6.3V,Elect.	Q301	22240829	TC9274N-008
C821,C823	356724709R2	47 μ F,6.3V,Elect.	Q302	22240799	TC9163AN
C825,C827	356724709R2	47 μ F,6.3V,Elect.	Q311	22240191	NJM4565D-D
C831,C832	356741009R2	10 μ F,16V,Elect.	ζυ	Capacitors	10111-303 <u>D</u> -D
C841-C844	356741009R2	10 μ F,16V,Elect.	C341,C343	354744709	47 μ F,16V,Elect.
	Terminals		C344,C346	354744709	47 μ F,16V,Elect.
P1001,P1002	25045473	NPJ-1PDBL291	C349,C351	353744709	47 μ F,16V,Elect.
	Sockets		C353,C354	393884707	47 μ F,50 V,Elect.
P701	25051442	NSCT-20P1229	C357,C358	393884707	47 μ F,50 V,Elect.
P702,P801	25051438	NSCT-16P1225		Sockets	
P803	25051430	NSCT-8P1217	Р301Ь	25051438	NSCT-16P1225
			Р302Ь	25051429	NSCT-7P1216
		NAPS-6610-3A/3B/3C/3D)		Plug	
CIRCUIT NO.	PART NO.	DESCRIPTION	Р303Ь	25055234	NPLG-3P218
	Transistor			Terminals	
Q921	2213640 or	DTC123JS or	P304,P305	25045571 or	NPJ-6PDRW386 or
		KRC105M		25045300	NPJ-6PDBL159
Don't Don't	Diodes		P307	25045575 or	NPJ-4PDRW389 or
D921-D924	22380035,	GP104003E,		25045303	NPJ-4PDBL162
	22380032 or	1SR139-100 or			
Dogs	22380260	RL1N4003			OARD (NAETC-6612-3A/3B/3C/3D)
D925	223163 or	1SS133 or	CIRCUIT NO.	PART NO.	DESCRIPTION
	223205	1SS270A	P212	25051961	NSCT-4P1748,Socket
T902	Power transforme		P213	25045405	NPJ-3PDBL230,Terminal
1702	2300670A <u>A</u> 2300671A <u>A</u>	NPT-1111D <d></d>	P204a	2009990434UL	NSAS-10P0578,Socket
	2300671A <u>A</u> 2300672A <u>A</u>	NPT-1111P < P/T/A>	P303a	2009990513UL	NSAS-6P0675,Socket
	Capacitors	NPT-1111DG <w></w>			
C901	3500196S	RE275V-103M			
C922	354742219	220 μ F,16V,Elect.			
	Resistors	220 M 1,10 T,E100L			
R901	431533355	RC1/2GFKUL-3.3M,Solid <d></d>			
R921	453530824	8.2 Ω ±5%,1/2W,Metal			
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SURROUND/FI (NAETC-6614-		ŒR	TERMINAL PC BOARD	CIRCUIT NO.	PART NO. Resistor	DESCRIPTION		
CIRCUIT NO.	D. PART NO.		•		RT NO. DESCRIPTION		49163103415 Switches	RM1/10IJ-10K*15,Array
C5219,C5221	374721034		0.01 μ F±5%,50V,Plastic <p a="" t="" w=""></p>	S8501-S8531	25035652	NPS-111-S604,Push		
C5261,C5262	374724734		0.047 µ F±5%,50V,Plastic	S8532	25065507	EC11B15244,Rotary		
C5319,C5321	374721034		0.01 \(\mu \) F±5%,50V,Plastic <p a="" t="" w=""></p>		Sockets	201121211,1101119		
C5361,C5362	374724734		0.047 µ F±5%,50V,Plastic	ЛL8501A	25051109	NSCT-5P896		
•	Resistors			JL8502A	25051107	NSCT-3P894		
R5261,R5262	453630824		8.2 Q ±5%,1W,Metal	P8501	25052071,	NSCT-25P1858,		
R5361,R5362	453630824		8.2 Ω±5%,1W,Metal		25050965,	NSCT-25P752,		
	Terminal		, ,		25051329.	NSCT-25P1118,		
P5636	25060292		NTM-8PDMN223		25051869 or	NSCT-25P1656 or		
	Plugs				25052258	NSCT-25P2155		
P5634b	25055167		NPLG-4P151		Holder			
P5635b	25055165		NPLG-2P149	Q8501A	27191074	(FL)		
FRONT/CENTI	ER SPEAKER T	ERI	MINAL PC BOARD	S-VIDEO TERM	MINAL PC BOAR	D (NAVD-6622-3A/3B)		
(NAETC-6615-3	3A/3B/3C/3D)			CIRCUIT NO.	PART NO.	DESCRIPTION		
CIRCUIT NO.	PART NO.		DESCRIPTION		ICs			
	Capacitors			Q215-Q218	22241347	NJM2296D		
C5019,C5119	374721034		$0.01 \mu \text{ F} \pm 5\%,50 \text{V,Plastic} < P/T/W/A>$	Q219	22240800	TC9164AN		
C5061,C5161	374724734		0.047 µ F±5%,50V,Plastic		Transistors			
C5419	374721034		0.01 μ F±5%,50V,Plastic <p a="" t="" w=""></p>	Q201-Q208	2213631 or	RN1241-A or		
C5461	374724734		0.047 µ F±5%,50V,Plastic	Q211-Q214	2213632	RN1241-B		
	Resistors				Capacitors			
R5061,R5161	453630824		8.2 Ω±5%, l W, Metal	C232,C233	354744719	470 μ F,16V,Elect.		
R5461	453630824		8.2 Ω ±5%, 1W, Metal		Plug			
	Terminal			P202B	25055236	NPLG-5P220		
P5632	25060291		NTM-6PDMN222		Sockets			
	Plug			JL201A	25051093	NSCT-9P880		
Р5631Ь	25055169		NPLG-6P153	ЛL202A	25051094	NSCT-10P881		
				P201B	25051428	NSCT-6P1215		
		(NA	ETC-6619-3A/3B/3C/3D)	P205,P206	25051568	NSCT-12P1355		
CIRCUIT NO.	PART NO.		DESCRIPTION	P207	25051750	NSCT-4P1537		
C906	3500196S Z	Φ	RE275V-103M, Capacitor IS					
S906	25035550	Λ	NPS-111-L512P, Switch	ON-SCREEN PO	C BOARD (NAVD-	-6623-3A/3B)		
				CIRCUIT NO.	PART NO.	DESCRIPTION		
		D (V	MADIS-6621-3A/3B)		ICs			
CIRCUIT NO.	PART NO.		DESCRIPTION	Q220	22241037	LC74761-9189		
09501	FL tube		17 DT 77CV	Q223,Q224	22241347	NJ M22 96D		
Q8501	212199 IC		16-BT-66GK	0221	Transistors	**************************************		
Q8503	22240685R9		MESONAFR	Q221	2212115,	2SC2458-GR,		
Q8303	Remote sensor		M66004FP		2213284 or	2SC1740S-R or		
U8501	241330		PIC-26043TE2	Q222		25A1048 GR		
00301	Transistors		110-20043112	Q222	2212125,	2SA1048-GR		
Q8502,Q8505	2212115,		2SC2458-GR,		2213354 or 2215975 NI	2SA933S-R		
Q000 2 ,Q0000	2213284 or		2SC1740S-R or	Q225-Q230	2213631 or	P KTA1266-GR RN1241-A or		
		NP	KTC3199-GR	Q225-Q250	2213632	RN1241-B		
Q8504	2213510,		DTA114ES,		Diodes	KN1241-D		
Q050 I	2214350 or		RN2202 or	D213-D215	223163 or	1SS133 or		
		NP	KRA102M	D213-D213	223205	1SS270A		
Q8507	221282,	111	DTC144ES,		Crystals	133270A		
Q0507	2213560 or		RN1204 or	X201	3010167	XTL-14.32M		
		NP	KRC104M	X202	3010238	XTL-14.32M XTL-17.73M <p t="" w=""></p>		
	Diodes		into to the	ALUL	Coils	X1L-17.75W1 \F/1/W>		
D8501,D8505	223163 or		1SS133 or	L201	233454J056	NCH-1452 056J		
20101,20200	223205		1SS270A	L202	233454K220	NCH-1452 220K		
D8502	225290		SEL4110R,LED	1,202	Capacitors	NCII-1432 220K		
D8504	224470823		MTZJ8.2C,Zener	C208,C219	354721019	100 E 6 2V Elast		
	Capacitors			C208,C219 C210,C221	375524744	100 μ F,6.3 V,Elect.		
C8515	354721019		100 μ F,6.3 V, Elect.	C210,C221	354784799	0.47 μ F±5%, 50V, Plastic		
C8506	354741009		10 μ F,16V,Elect.	C211	374722234	0.47 μ F,50V,Elect. 0.022 μ F±5%,50V,Plastic		
C8518	354780109		1 μ F,50V,Elect.	C214 C215,C225	354780109	1μ F,50V,Elect.		
C8510	354781009		10 μ F,50V,Elect.	C216	374726824	6800pF±5%,50V,Plastic		
C8514	375524744		0.47 μ F±5%,50V,Plastic	C210	374720824	1200pF±5%,50V,Plastic		
· ·			T, I I I I I I I I I I I I I I I I I I I	J217	J1714144	1200pr 2370,30 V, Plasuc		



					
CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors			Oscillators	
C218	354783399	0.33 μ F,50V,Elect.	X2001	3010203	AF6146CG,Crystal <p></p>
C223,C226	354721019	100 μ F,6.3 V,Elect.	X8001	3010322	CST16.00MXW0C1,Ceramic
C224	354724719	470 μ F,6.3V,Elect.		Capacitors	
C227	354744709	47 μ F,16V,Elect.	C2001	354784799	0.47μ F,50V,Elect.
C230,C231	354744719	470 μ F,16V,Elect.	C2002	354780339	3.3 μ F,50V,Elect.
	Terminals		C2006,C2008	354721019	100 μ F,6.3 V,Elect. <p></p>
P209	25045339	NPJ-4PDYE190	C2007	374725614	560pF±5%,50V,Plastic <p></p>
P210	25045299	NPJ-3PDYE158	C2012,C2013	374721824	1800pF±5%,50V,Plastic <w></w>
	Switch		C6071,C6171	354741009	10 μ F,16V,Elect.
S201	25065581	NSS-22203	C6072,C6172	354721019	100 μ F,6.3 V, Elect.
	Sockets		C6073-C6075	354741009	10 μ F,16V,Elect.
ЛL201В	25051093	NSCT-9P880	C6173,C6175	354741009	10 μ F,16V,Elect.
JL202B	25051094	NSCT-10P881	C8001,C8002	354721019	100 μ F,6.3 V,Elect.
P203B	25051431	NSCT-9P1218	C8003	354780109	1 μ F,50V,Elect.
12035	25051451	14301-91 1210	C8007	3000078	DX-5R5L104,Super
UE ADDUONE T	FEDMINAL DC DC	OARD (NAETC-6624-3A/3B)	C8007	375524744	0.47 μ F±5%,50V,Plastic
CIRCUIT NO.	PART NO.	DESCRIPTION	C8011	354780339	3.3μ F,50V,Elect.
Л8501B	25051109	NSCT-5P896,Socket	C8013	354741009	10μ F,16V,Elect.
		•			4700 μ F, 16V, Elect.
P8502	25045514	YKB26-5005, Headphone	C9053	354744729	• • •
14.15.15.07.13.6	E DC DO A DD AVA	ETIC ((08 34 (3D))	C9054	354741029	1000 μ F, 16V, Elect.
	E PC BOARD (NAI	*	C9056	354724719	470 μ F,6.3 V, Elect.
CIRCUIT NO.	PART NO.	DESCRIPTION	C9058,C9060	354741009	10 μ F,16V,Elect.
JL8502B	25051107	NSCT-3P894,Socket	C9062,C9064	354741009	10 μ F,16V,Elect.
S8533	25065575	EC16B2425,Rotary encoder	C9063	354780229	2.2 µ F,50V,Elect.
			C9065	354762229	2200 μ F,35V,Elect.
	•	AR-6627-3A/3B/3C/3D)	C9066	354761029	1000 μ F,35V,Elect.
CIRCUIT NO.	PART NO.	DESCRIPTION	C9068,C9070	354741009	10 μ F, 16V, Elect.
	ICs		C9069	354780229	2.2 μ F,50V,Elect.
Q2005	22241297R2	BU1923F <p></p>	C9071	354781019	100 μ F,50V,Elect.
Q6075	22240191	NJM4565D-D	C9072	354771019	100 μ F,63V,Elect.
Q8003	22241420	M30624MG-238FP	C9076	354742229	2200 μ F,16V,Elect.
Q9051	22278033DNEC	MPC2933HF	C9078,C9080	354741009	10 μ F, 16 V, Elect.
Q9052-Q9054	222780055	78M05HF		Resistors	
Q9055	222790055	79M05FA	R6078,R6178	453530224	$2.2 \Omega \pm 5\%, 1/2W, Metal$
Q9056,Q9057	222780125	78M12HF	R9051,R9052	452638294	0.82 Ω ±5%,1 W,Metal
Q9059	222780565JRC	NJM78M56FA	R9053	452630154	1.5 Ω ±5%,1W,Metal
Q9060	222780055	78M05HF	R9054	452630154	$1.5 \Omega \pm 5\%, 1W, Metal$
	Transistors		R9055	452630334	3.3 Q ±5%,1W,Metal
Q2001,Q2002	2215410R2	RN1441	R9056	452530334	$3.3 \Omega \pm 5\%, 1/2$ W, Metal
Q2003	2214530R2	RN2402	R9057	452530104	1 Ω ± 5%, 1/2W, Metal
Q2004	2213143R2	2SC2712-O <p></p>	R9058,R9059	452630474	4.7 Ω ±5%,1W,Metal
Q6071,Q6072	2215410R2	RN1441	R9060,R9066	452530474	$4.7 \Omega \pm 5\%$, $1/2$ W, Metal
Q6073	2214530R2	RN2402	R9061,R9062	452530824	$8.2 \Omega \pm 5\%, 1/2$ W, Metal
Q6074,Q8001	2214490R2	RN1404	R9065	453530224	2.2 Ω±5%,1/2W,Metal
Q6171,Q6172	2215410R2	RN1441	R9067,R9068	442621014	100 Ω±5%,1W,Metal oxide
Q8002,Q8102	2214530R2	RN2402	R9069	442521204	12 Ω±5%,1/2W,Metal oxide
Q8101,Q8103	2214490R2	RN1404		Fuse labels	
Q9058	2211455	2SA1015-GR	F941A,F942A	29361747	T2.5AL250V < P/T/W/A>
	Diodes			Fuse holders	
D8001	22380260,	RL1N4003,	F943-F946	25052133	∧ NSCT-1P2031
D9052-D9057	22380032 or	1SR139-100 or		Sockets	
D9059-D9061	22380035	GP104003E	ЛL5623A	25051091	NSCT-7P878
D8002	223234R2 or	1SS352 or	ЛL9051A	25051107	NSCT-3P894
D804-D806	223233R1	1SS355	Л.942A	25051113	NSCT-9P900
D8003,D8007	224490560R2	UDZ5.6B,Zener		Plugs	
D8101,D8102	223234R2 or	1SS352 or	P201A	25055785	NPLG-6P741
,	223233R1	1SS355	P203A	25055788	NPLG-9P744
D9051	22380022F	RBV402	P3012A,P3013A		NPLG-20P755
D9058	224493300R2	UDZ33B,Zener	P301A,P702A	25055795	NPLG-16P751
	Coils		P302A	25055786	NPLG-7P742
L2001	231237K220R2	NCH-1477 <p></p>	P701A	25055799	NPLG-20P755
L8001	231237K220R2	NCH-1477	- · • • •		
R8034,R8036	230948R2	BLM21A102F			

C3073,C3074

C3079,C3080

C3093,C3094

354784709

354741009

354741009

47 μ F,50V,Elect.

10 μ F,16V,Elect.

10 μ F,16V,Elect.

CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
	Plugs			Capacitors	
P8002A	25052024,	NSCT-15P1811,	C3097,C3098	354721019	100 μ F,6.3V,Elect.
	25050955,	NSCT-15P742,	C3251,C3351	374722224	2200pF±5%,50V,Plastic <p a="" t="" w=""></p>
	25051281,	NSCT-15P1070,	C4005,C4105	374721244	0.12 μ F±5%,50V,Plastic
	25051822 or	NSCT-15P1609 or	C4006,C4106	374724734	0.047 μ F±5%,50 V,Plastic
	25052211	NSCT-15P2108	C4602,C4604	354741009	10 μ F,16V,Elect.
P8003A	25055789	NPLG-10P745	C6604	354781009	10 μ F,50V,Elect.
P801A	25055795	NPLG-16P751	C7001,C7002	354784709	47 μ F,50V,Elect.
P803A	25055787	NPLG-8P743	C7003,C7004	354744709	47 μ F,16V,Elect.
	Terminals		C7011,C7111	354741009	10 μ F,16V,Elect.
P8203	25045504	NPJ-1PDBL319,RI	C7013,C7113	354780229	2.2 μ F,50V,Elect.
P8501A	25052034,	NSCT-25P1821,	C7015,C7024	354784709	47 μ F,50V,Elect.
	25050965,	NSCT-25P752,	C7033,C7034	374721534	0.015 μ F±5%,50V,Plastic
	25051291,	NSCT-25P1080,	C7035,C7036	374724724	4700pF±5%,50V,Plastic
	25051832 or	NSCT-25P1619 or	C7039,C7040	374721234	0.012μ F±5%,50V,Plastic
	25052221	NSCT-25P2118	C7041,C7042	374728234	0.082μ F±5%,50 V,Plastic
	Fuses	N3C1-2312116	C7045,C7046	3547 44 709	$47 \mu \text{ F}, 16\text{V}, \text{Elect}.$
F941,F942		2.5A-UL/T-237,Fuse <d></d>		374725614	
F 941,F 942		•	C7051,C7151		560pF±5%,50V,Plastic <p a="" t="" w=""></p>
	252241 or 🛕	2.5A-SE-TL250Vor	C7115,C7124	354784709	47 μ F,50V,Elect.
	252075 🛆	2.5A-SE-EAK, Fuse <p a="" t="" w=""></p>	C7201,C7203	354744709	47 μ F,16V,Elect.
	Screws		C7202,C7205	354784709	47 μ F,50V,Elect.
Q9051B,Q9052B		3P+10FN(BC),Pan head	C7204,C7206	354741009	10 μ F,16V,Elect.
Q9054B,Q9055B		3P+10FN(BC),Pan head	C7211,C7311	354741009	10 μ F,16V,Elect.
	Switch		C7213,C7313	354784709	47 μ F,50 V,Elect.
S2001	25065414	NSS-22155 <w></w>	C7401,C7402	354744709	47 μ F,16V,Elect.
	Heatsinks		C7403,C7404	354784709	47 μ F,50 V,Elect.
Q9054A,Q9055A	27160391		C7411,C7511	354741009	10 μ F,16V,Elect.
Q9051A,Q9052A	27160209	RAD-67	C7413,C7513	354780229	2.2μ F,50V,Elect.
			C7415,C7515	354784709	47 μ F,50 V,Elect.
PREAMPLIFIE	R PC BOARD (NA	AF-6628-3A/3B/3C/3D)	C7422,C7522	354784709	47 μ F,50V,Elect.
CIRCUIT NO.	PART NO.	DESCRIPTION	C7431	374721534	0.015 \(\mu \) F±5%,50V,Plastic
	ICs		C7432	374724724	4700pF±5%,50V,Plastic
Q3051,Q3061	22241383R2	NJM4565M-D	C7434,C7534	374721234	0.012 µ F±5%,50V,Plastic
Q3071,Q3091	22241383R2	NJM4565M-D	C7435	374728234	0.082 µ F±5%,50V,Plastic
Q4001,Q4101	22241383R2	NJM4565M-D	C7451,C7551	374722224	2200pF±5%,50V,Plastic <p a="" t="" w=""></p>
Q4201,Q4301	22241383R2	NJM4565M-D	C7524	374722734	0.027 μ F±5%,50V,Plastic
Q4601	22240786	TC9274N-006	C7534	374721234	0.012 μ F±5%,50V,Plastic
Q4602	22241221R2	TC9164AF	C7535	374728234	0.082 μ F±5%,50V,Plastic
Q7001,Q7201	22241220R2	TC9459F		Terminals	
Q7011,Q7021	22241383R2	NJM4565M-D	P3051	25045572	NPJ-6PDBRW387
Q7031,Q7431	22241253	TC9184AP	P3052	25045300	NPJ-6PDBL159
Q7041	22240025	LC4966	P7051	25045586	NPJ-4PDBRW397
Q7211	22241383R2	NJM4565M-D		Plug	
Q7401	22241220R2	TC9459F	P3011B	25055139	NPLG-9P123
Q7411,Q7421	22241383R2	NJM4565M-D	130115	Sockets	11 20 71 123
Q, 111, Q, 121	Transistors	TOTAL SOSTI D	P3012B,P3013B	25051442	NSCT-20P1229
Q6001-Q6003	2215410R2	RN1441	130120,130130	25051442	11001 201122
Q6101-Q6103	2215410R2	RN1441	MOTE	: <d>: 120V model</d>	anh.
Q6201-Q6203	2215410R2	RN1441	NOIE	<p>: 230V model</p>	2
Q6301-Q6303	2215410R2	RN1441			•
				<t>: Asian model</t>	•
Q6401-Q6403	2215410R2	RN1441		<w>: Worldwide i</w>	-
Q6501,Q6502	2215410R2	RN1441		<a>: Autralian mo	odel only
Q6601	2214470R2	RN1402			
Q6602	2214550R2	RN2404			
Q6605	2214470R2	RN1402			
	Diodes				
D7201,D7202	224490910R2	UDZ9.1B,Zener			
	Capacitors				
C3053,C3054	354784709	47 μ F,50 V, Elect.			
C3063,C3064	354784709	47 μ F,50V,Elect.			
C3067,C3077	374726224	6200pF±5%,50V,Plastic			
C3068,C3078	374721824	1800pF±5%,50V,Plastic			
C3069,C3070	354741009	10 μ F,16V,Elect.			

ADJUSTMENT AND CONFIRMATION

1. Idling current adjustment

Before Idling adjustment, turn the trimming resistors R5022, R5122, R5222, R5322 and R5422 to counter clockwise. Connect the DC voltmeter to sockets P5001, P5101, P5201, P5301 and P5401.

After turn POWER to ON, adjust the trimming resistors R5022, R5122, R5222, R5322 and R5422 so that the reading of voltmeter becomes 1.0 mV.

After adjustment, attach the top cover.

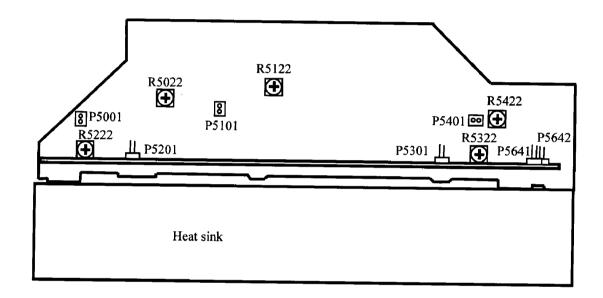
Confirm the voltage of above points after five minutes.

When less than 6 mV, readjust the above resistors so that the voltage becomes 6.0 mV.

When 6 mV to 7.5 mV, you are not necessary to adjust.

When more than 7.5 mV, readjust the above resistors so that the voltage becomes 7.5 mV.

Note: No load and No signal



Confirmation of protection circuit

1. Confirmation of speaker relay

Confirm that the speaker relay turns ON approximate 5 seconds after the power switch is turned ON.

Confirm that the speaker relay turns OFF immediately after the power switch is turned OFF.

2. Confirmation of DC detection circuit

Press and hold down CD button, then press SPEAKERS-A and SPEAKERS-B buttons at the same time.

During "TEST-1-00" on the FL tube light on and off, press PRESET/MODE ADJ button.

Apply DC 1.5~3V to MULTI CHANNEL INPUT terminals with no load.

Confirm that the speaker relay turns OFF.

Apply DC -1.5~-3V to MULTI CHANNEL INPUT terminals with no load.

Confirm that the speaker relay turns OFF.

3. Confirmation of Current detection circuit

Press and hold down CD button, then press SPEAKERS-A and SPEAKERS-B buttons at the same time.

During "TEST-1-00" on the FL tube light on and off, press PRESET/MODE ADJ button.

Connect Differentiator below and apply the 200Hz square signal to the terminal of MULTI CHANNEL INPUT.

Adjust the attenuator or Volume so that the output level becomes 35V p-p.

Confirm that the speaker relay does not turn OFF when a 3.0 ohm load is connected.

Confirm that the speaker relay turns OFF when a 1.5 ohm load is connected.

Confirmation of Fan

Set the unit to "TEST-1-00" and apply the signal 1kHz, -30dB (32 mV) to Multi channel inputs except Sub Woofer with no load. Confirm that the fan turns after few seconds.

Connect the 22 ohm resistor between terminal P5642 with no input.

Confirm that the fan turns after few seconds.

Confirmation of thermal detection circuit

Set the unit to "TEST-1-00" and connect the 22 ohm resistor between terminal P5641. Confirm that "Thermal Protect" on the fluorescent tube light on.

MULTI **CHANNEL** CR **SPEAKER** OSCILLATOR **INPUT** TERMINAL ATTENU-DIFFEREN-UNIT ATOR TIATOR 200Hz **SQUARE** OSCILLO-SCOPE **INPUT** 3.3k 3.3k $0.1 \mu F$ 1SS133 OUT-**PUT**

 $0.01 \mu F$

Test Mode

GND (

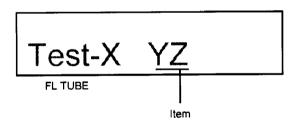
- 1. Turn POWER button on.
- 2. Press and hold down CD button, then press SPEAKERS-A and SPEAKERS-B buttons at the same time.

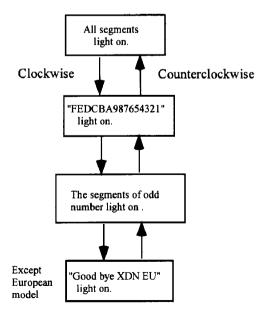
Differentiator

3. During "TEST-1-00" on the FL tube is displayed, press CD button to set the unit to the test mode of FL tube.

Test mode of FL tube

Turn PRESET/MODE ADJ button to change the test mode of FL tube.





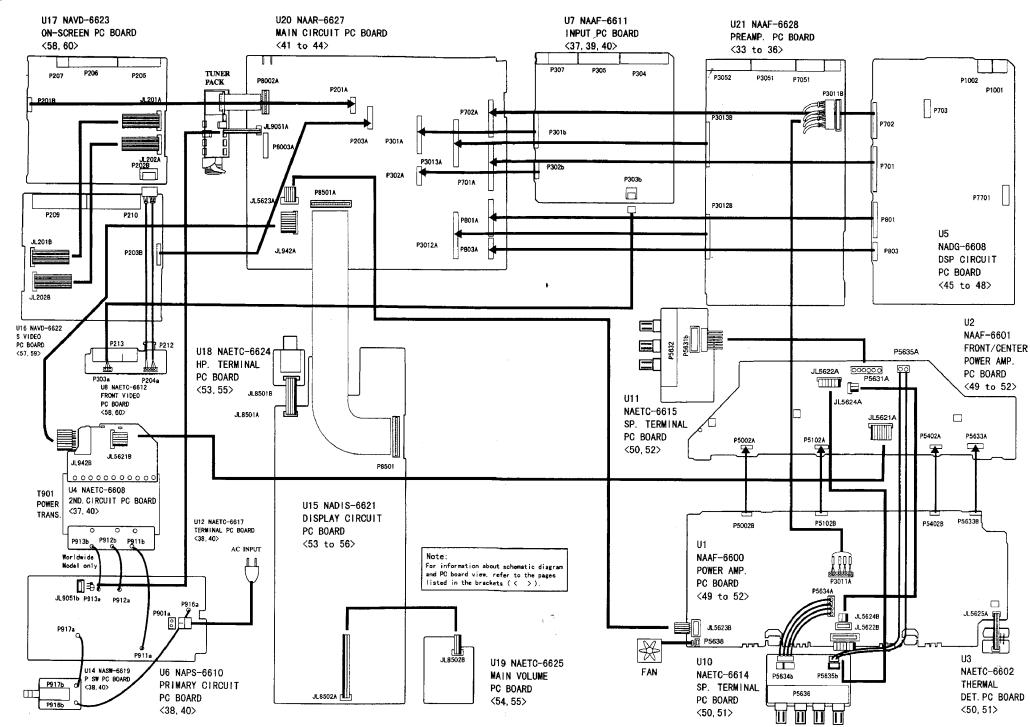
10k

Press PRESET/MODE ADJ button to finish the test mode of FL tube.

XDN EU 123 4

- 1. THX: 1.THX 0:None
- 2. Digital output:1.Yes 0:No
- 3. N: 1.NTSC/PAL: Auto PAL 0: NTSC
- 4. EU:Europe US: USA SA:Saudi JP:Japan

RING VIEW



- RC-202593 001., 7ta., 1999

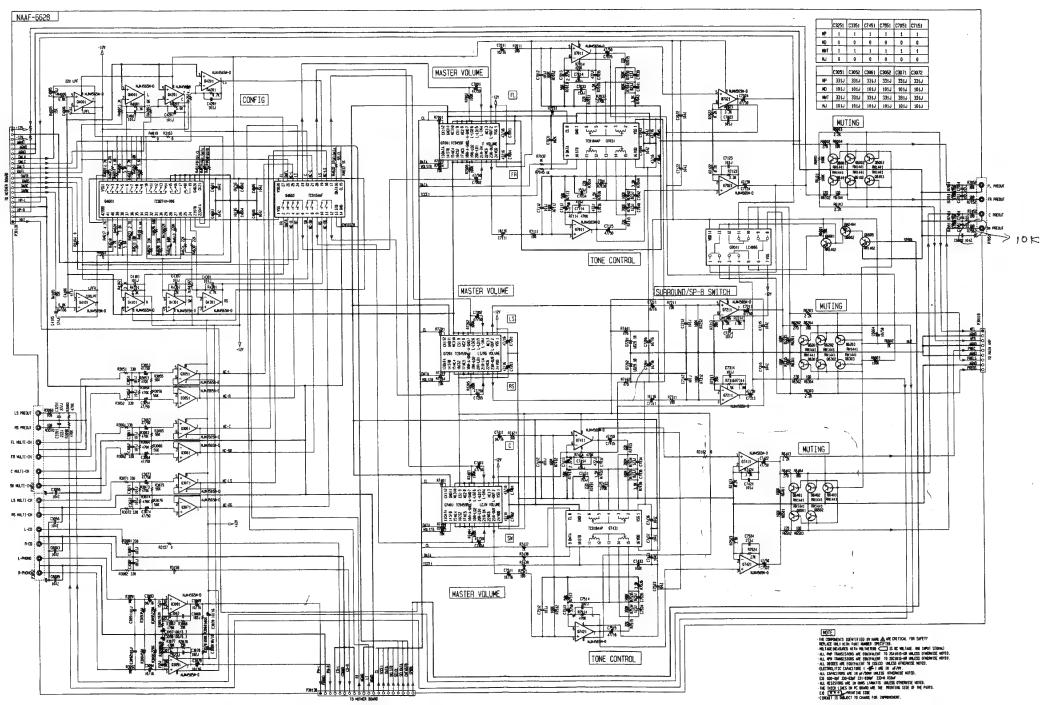
В Α C D E G **EMATIC DIAGRAM 1** 04601 TC9274H-006 PL WALIN AMP 050 15 02005 801927 ADS DECODER 9815 SWLPP N.SER + + + SPENIERS 34101 04101 000 0103 AX5393 0801 MATE 4X4393 SML/OL 0701 CS4925 OSP OFFEG) 2 Sun an 9892 18 N 8 48.4393 LS/L 20.500 (0.016) 19 SIR. OH 0803 0815 0816 FT 1 0815 3420 $\oplus \oplus$ 11 21.8 O-O -0707 (S4926 09P 20.508 | MUTE | 10 Sin Sin 04301 912 G114 813 4K4110 814 DIR DD, DTS, DHKYO SURROUNCH 21 11.00 22 SUR OH 2 220HZLPE 0460 96601 D 0584 FAM OPERATION 05601-05607 96663 NSAMETHET MOSES NEUR PENNE PEN CONTROLLER LC74761-9189 OSO COMPROLER CMESTR ¥10€0 SM 0223 KLM2296 VIDEO-1 (6 Y10F0-2 VIDED-3 YIDEO-4 W2 0301V Ø-₽0> 6224 KJ46298 KREY SM S-HONITOR 33 V10€0 SW S-¥10E0-1 0215 NJM2296 S2001 MI FRED STEP WIT-TYPE ONLY S-VIDEO-2 VIDEO SW ⊗ 800> 0216 HJM2296

Ø-₽ 0217 NJK2296

¥10€0 SW ⊗-80> 0218 NJAC296

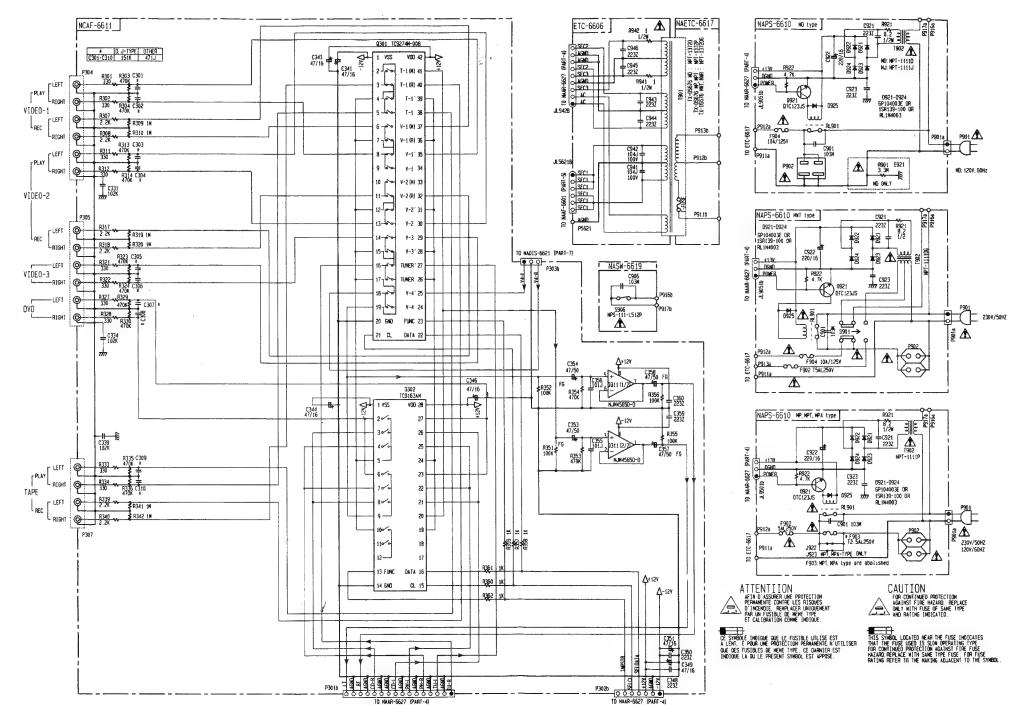
A B C D E F G

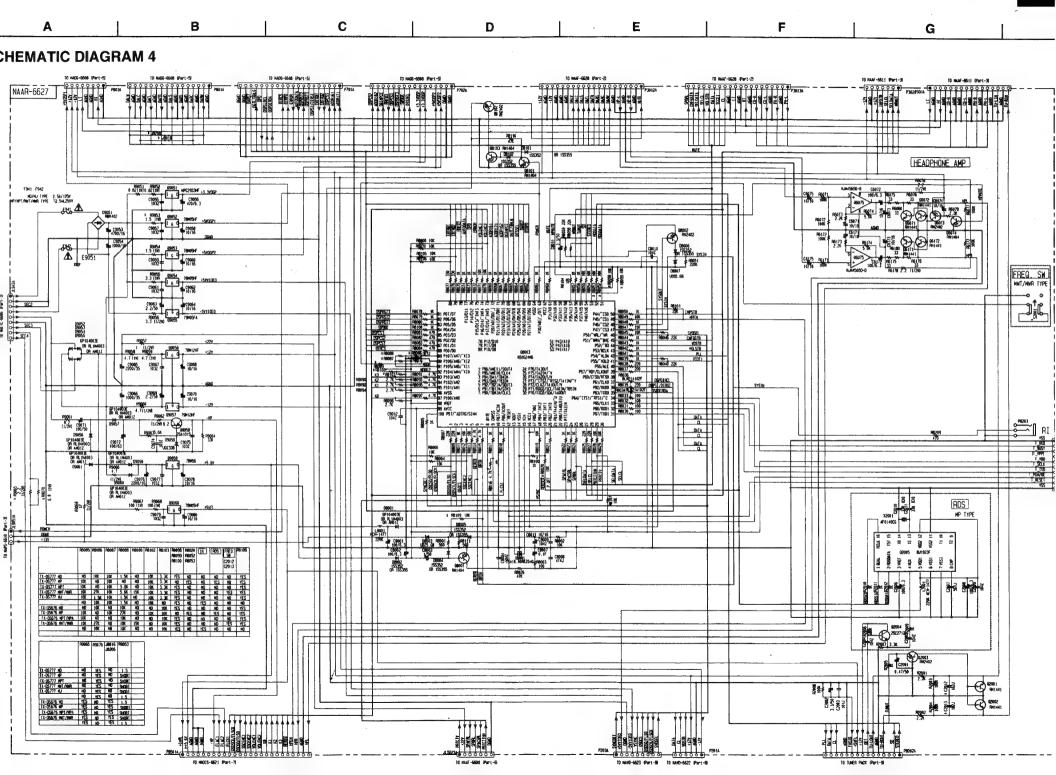
IEMATIC DIAGRAM 2

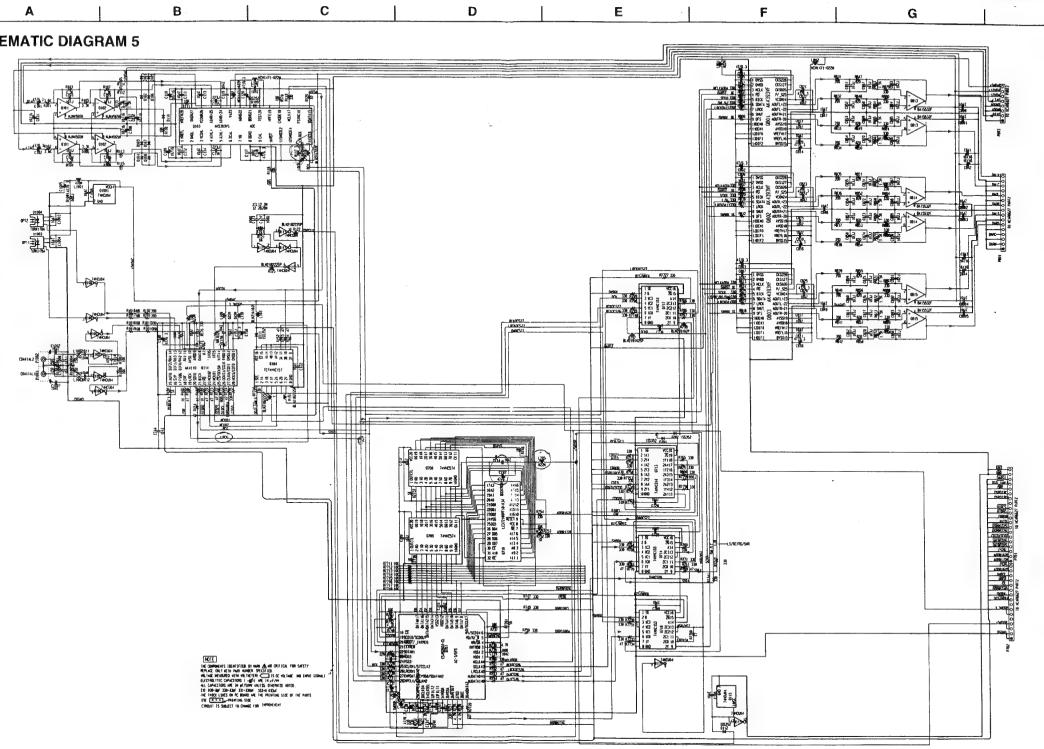


A B C D E F G

CHEMATIC DIAGRAM 3

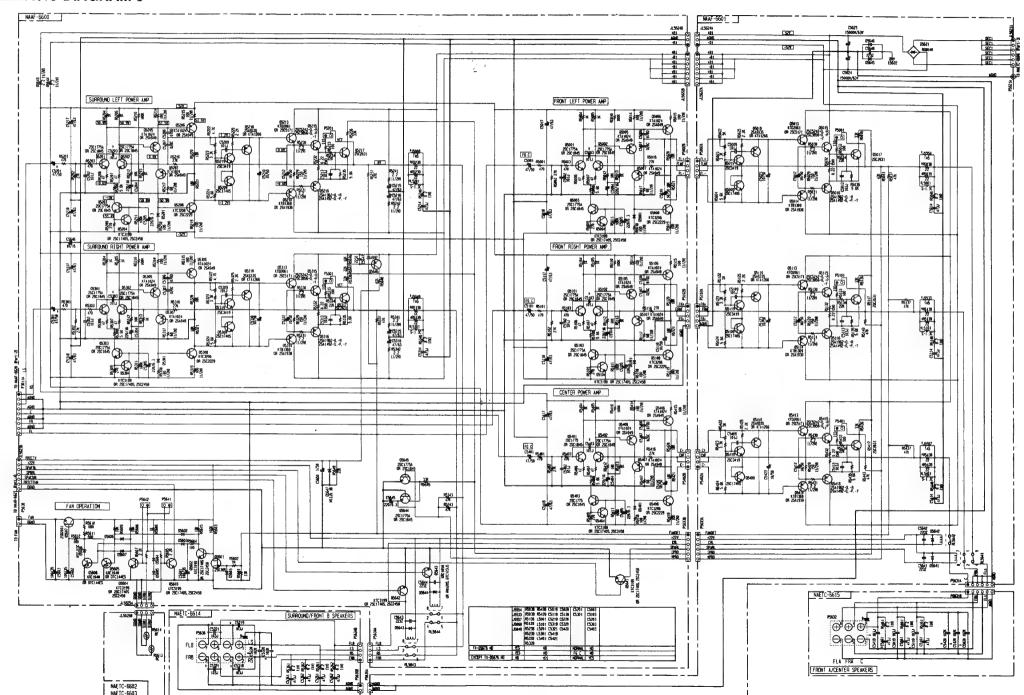






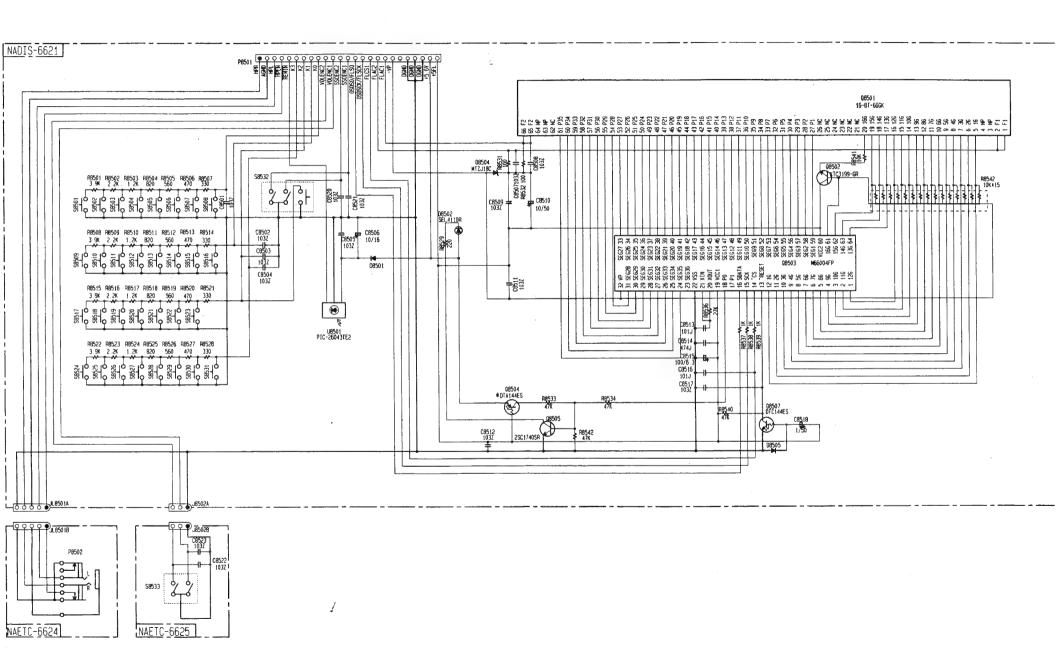
A B C D E F G

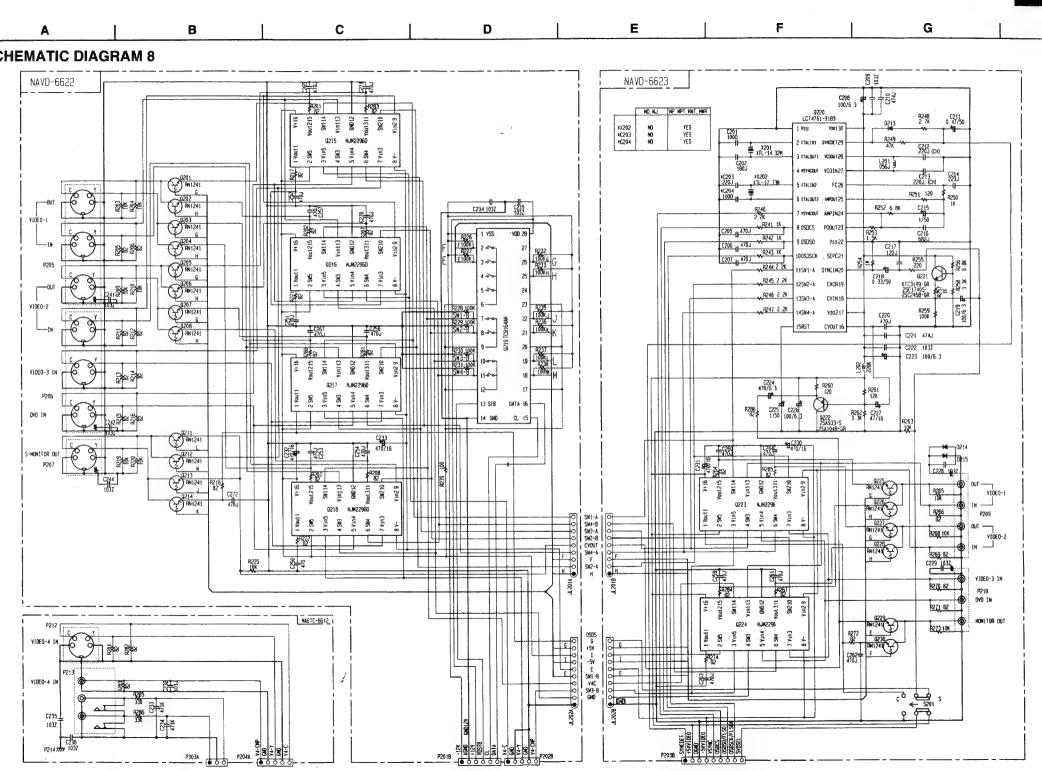
CHEMATIC DIAGRAM 6



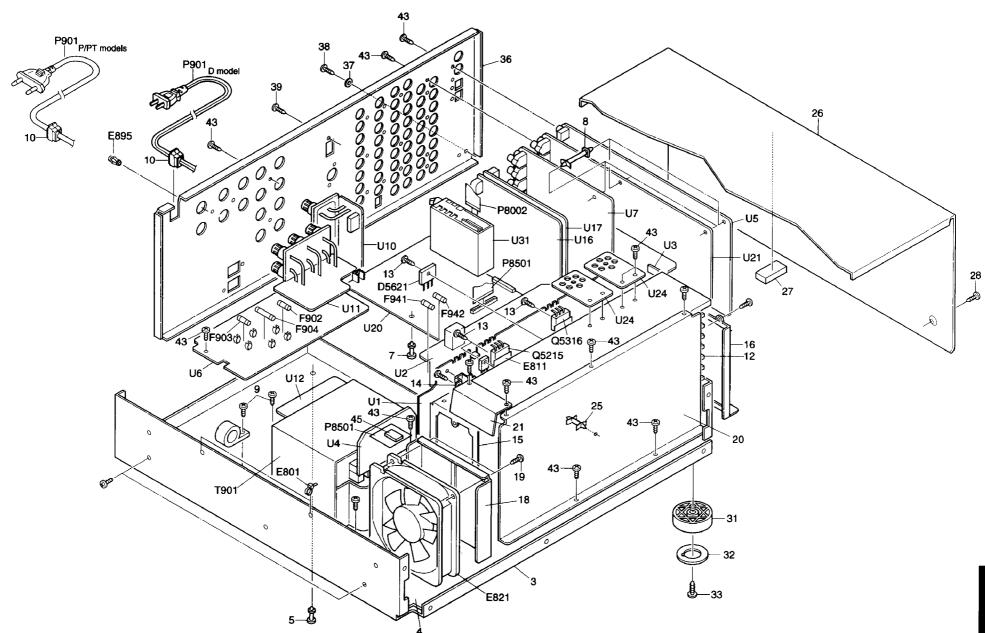
A | B | C | D | E | F | G

CHEMATIC DIAGRAM 7

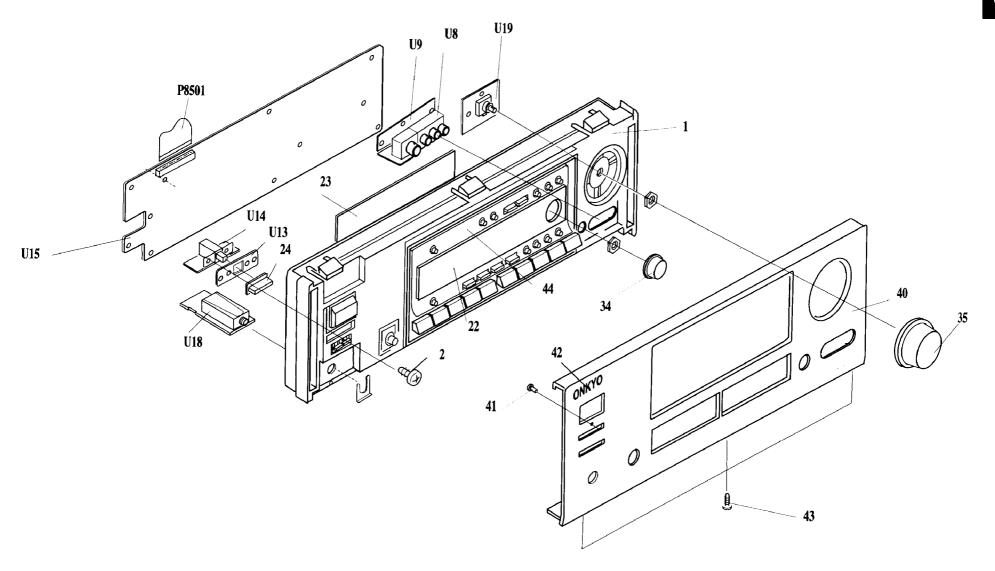




EXPLODED VIEW



TX-DS676



PARTS LIST

REF.NO.	PART NO.		DESCRIPTION		REF.NO.	PART NO.		DESCRIPTION
1	27111116		Front bracket 		37	87643010		W3*10F(BC),Flat washer
	27111117		Front bracket <g></g>		38	838930088		3TTB+8B(UN),Self-tapping screw
2	82143010		3P+10FN(BC),Pan head screw		39	838430068		3TTB+6B(BC),Self-tapping screw
3	27100373A		Chassis		40	27212119		Front panel
4	27130824B		Bracket PT			27212120		Front panel <g></g>
5	27190813		KGPS-10RF,Holder		41	28198778		Facet
6	27190965		Holder		42	28135244Y		Badge
7	27190428A		KGLS-10RF,Holder			28135245		Badge <g></g>
8	27190470		KGLS-18S,Holder		43	838130088		3TTB+8B,Self-tapping screw
9	830440089		4TTC+8C(BC),Self-tapping screw		44	27215329		Decorative frame <d a="" r="" t="" w=""></d>
10	27300750	Δ	#2271,Bushing,cord	2271,Bushing,cord		27215330		Decorative frame <p></p>
11	27301396		HL-28-0,Clamp			27215331		Decorative frame <g></g>
12	27160446B		Heat sink		45	28141336Y		Cushion
13	801433		3SMS8W.SW+14B(BC),Special screw		D5621	22380273		RS804M, Diode
14	27141681		Retainer PWB		E801	260208		Wire tie
15	27141740		Retainer L		E811	223024Y	Δ	AC238,Isolated sheet
16	27141741		Retainer R		E821	24502308		D09T-24PG07(EX),Fan
18	27141742		Retainer, fan		E895	880048		P-3055B-8L,Plastic rivet <p t=""></p>
19	838150108		5TTB+10B,Self-tappping screw		F902	252244 or		5A-SE-TL250V or
20	27141743		Retainer F			252078		5A-SE-EAK,Fuse <p a="" r="" t="" w=""></p>
21	27150439		Shield plate		F903	252241 or	\triangle	2.5A-SE-TL250V or
22	28191851A		Clear plate			252075	\triangle	2.5A-SE-EAK,Fuse <p t=""></p>
23	28133385		Back plate 		F904	252199		10A-UL,Fuse <d r="" w=""></d>
	28133386		Back plate <g></g>		F941,F942	252160	Δ	2.5A-UL/T-237,Fuse <d></d>
24	28325497A		Knob,Power 			252241 or	Δ	2.5A-SE-TL250V or
	28325499A		Knob,Power <g></g>			252075	Φ	2.5A-SE-EAK, Fuse <p t="" w=""></p>
25	27190902		KGPS-16S,Holder		P8002	2047151512		NCFC7-151512,Flexible flat cable
26	28184757		Top cover 		P8501	2047255012		NCFC7-255012,Flexible flat cable
	28184758		Top cover <g></g>		P901		r \Lambda	AS-UC-2#18 or
27	28141272Y		10x60x20,Cushion			253289HIT	Δ	AS-UC-2#18,Power supply cord <d></d>
28	838430088		3TTB+8B(BC), Self-tapping screw 			253245MAR		AS-CEE,Power supply cord <p t=""></p>
	838930088		3TTB+8B(UN), Self-tapping screw <g></g>			253246KAW		AS-CEE-2,Power supply cord <w></w>
31	27175319A		Leg			253268HIT		AS-SAA,Power supply cord <a>
32	28141332		Cushion			253274KAW		AS-CCEE,Power supply cord <r></r>
33	831430088		3TTW+8B(BC),Self-tapping screw		Q5015,Q5115		*	2SC5242-O,
34	28325683		Knob SS 		Q5215,Q5315		*	2SC5242-R,
2.5	28325684		Knob SS <g></g>		Q5415	2201653,	*	2SC3856-O,
35	28325651		Knob, Volume 			2201655 or	*	2SC3856-P or
	28325653		Knob, Volume <g></g>			2201654	*	2SC3856-Y,Transistor
36	27122617		Rear panel <d></d>		Q5016,Q5116	,	*	2SA1962-O,
	27122618		Rear panel <p></p>		Q5216,Q5316	•	*	2SA1962-R,
	27122619		Rear panel <t></t>		Q5416	2201663,	*	2SA1492-O,
	27122620		Rear panel <w></w>			2201665 or	*	2SA1492-P or
	27122621		Rear panel <r></r>			2201664	*	2SA1492-Y,Transistor
	27122656		Rear panel <a>					

REF.NO.	PART NO.	PART NO. DESCRIPTION		PART NO. DESCRIPTION			
Q5019,Q5119	2212863 or	2SC3419-O or	U13	1A841518-3A	NASW-6618-3A,Holder for PC board <d></d>		
Q5419	2212864	2SC3419-Y,Transistor		1A841518-3B	NASW-6618-3B,Holder for PC board <p t=""></p>		
T901	2301414	NPT-1372D,Power transformer <d></d>		1A841518-3C	NASW-6618-3C,Holder for PC board <w r=""></w>		
	2301415	NPT-1372P,Power transforemer <p a="" t=""></p>		1A841518-3D	NASW-6618-3D, Holder for PC board <a>		
	2301416 🛆	NPT-1372DG,Power transformer < W/R>	U14	1A841519-3A	NASW-6619-3A, Power switch PC board ass'y <d></d>		
U1	1A841500-3A	NAAF-6600-3A,Power amplifier PC board ass'y <d></d>		1A841519-3B	NASW-6619-3B, Power switch PC board ass'y <p t=""></p>		
	1A841500-3B	NAAF-6600-3B,Power amplifier PC board ass'y <p a="" r="" t="" w=""></p>		1A841519-3C	NASW-6619-3C, Power switch PC board ass'y <w r=""></w>		
U2	1A841501-3A	A NAAF-6601-3A,Front/center power amplifier PC board ass'y <d></d>		1A841519-3D	NASW-6619-3D,Power switch PC board ass'y <a>		
	1A841501-3B	NAAF-6601-3B,Front/center power amplifier PC board ass'y <p a="" r="" t="" w=""></p>		1A841521-3A	521-3A NADIS-6621-3A,Display circuit PC board ass'y <d></d>		
U3	1A841502-3A	NAETC-6602-3A,Thermal detector PC board ass'y <d></d>		1A841521-3B	NADIS-6621-3B, Display circuit PC board ass'y <p a="" r="" t="" w=""></p>		
	1A841502-3B	NAETC-6602-3B,Thermal detector PC board ass'y <p a="" r="" t="" w=""></p>	U16	1A841522-3A	NAVD-6622-3A,S- video terminal PC board ass'y <d></d>		
U4	1A841506-3A	NAETC-6606-3A,Secondary circuit PC board ass'y <d></d>		1A841522-3B	NAVD-6622-3B,S- video terminal PC board ass'y <p a="" r="" t="" w=""></p>		
	1A841506-3B	NAETC-6606-3B,Secondary circuit PC board ass'y <p a="" r="" t="" w=""></p>	U17	1A841523-3A	NAVD-6623-3A,On-screen PC board ass'y <d></d>		
U5 -	- 1A841508-3A -	NADG-6608-3A,DSP circuit PC board ass'y <d a="" r="" t="" w=""></d>		1A841523-3B	NAVD-6623-3B,On-screen PC board ass'y <p a="" r="" t="" w=""></p>		
	1A841508-3B	NADG-6608-3B,DSP circuit PC board ass'y <p></p>	U18	1A841524-3A	NAETC-6624-3A, Headphone terminal PC board ass'y <d></d>		
U6	1A841510-3A	NAPS-6610-3A,Primary circuit PC board ass'y <d></d>		1A841524-3B	NAETC-6624-3B, Headphone terminal PC board ass'y < P/T/W/A/		
	1A841510-3B	NAPS-6610-3B,Primary circuit PC board ass'y <p t=""></p>	U19	1A841525-3A	NAETC-6625-3A,Mian volume PC board ass'y <d></d>		
	1A841510-3C	NAPS-6610-3C,Primary circuit PC board ass'y <w r=""></w>		1A841525-3B	NAETC-6625-3B,Mian volume PC board ass'y <p a="" r="" t="" w=""></p>		
	1A841510-3D	NAPS-6610-3D,Primary circuit PC board ass'y <a>	U20	1A841527-3A	NAAR-6627-3A,Main circuit PC board ass'y <d></d>		
U7	1A841511-3A	NAAF-6611-3A,Input terminal PC board ass'y <d></d>		1A841527-3B	NAAR-6627-3B,Main circuit PC board ass'y <p></p>		
	1A841511-3B	NAAF-6611-3B,Input terminal PC board ass'y <p t=""></p>		1A841527-3C	NAAR-6627-3C, Main circuit PC board ass'y <t a=""></t>		
	1A841511-3C	NAAF-6611-3C,Input terminal PC board ass'y <w r=""></w>		1A841527-3D	NAAR-6627-3D, Main circuit PC board ass'y <w r=""></w>		
	1A841511-3D	NAAF-6611-3D,Input terminal PC board ass'y <a>	U21	1A841528-3A	NAAF-6628-3A,Pre., amplifier PC board ass'y <d></d>		
U8	1A841512-3A	NAETC-6612-3A, Front video terminal PC board ass'y <d></d>		1A841528-3B	NAAF-6628-3B,Pre., amplifier PC board ass'y <p></p>		
	1A841512-3B	NAETC-6612-3B, Front video terminal PC board ass'y < P/T>		1A841528-3C	NAAF-6628-3C,Pre., amplifier PC board ass'y <t a=""></t>		
	1A841512-3C	NAETC-6612-3C, Front video terminal PC board ass'y <w r=""></w>		1A841528-3D	NAAF-6628-3D,Pre., amplifier PC board ass'y <w r=""></w>		
	1A841512-3D	NAETC-6612-3D, Front video terminal PC board ass'y <a>	U24	25136607	NCETC-6607,Holder PC board <d></d>		
U9	1A841513-3A	NAETC-6613-3A,Holder for PC board <d></d>	U25	25136723	NCETC-6723,Holder PC board <d></d>		
	1A841513-3B	NAETC-6613-3B, Holder for PC board < P/T>	U31	240134	TFCE1U114A,Tuner pack <d></d>		
	1A841513-3C	NAETC-6613-3C, Holder for PC board < W/R>		240135	TFCE1E512A,Tuner pack <p a="" r="" t="" w=""></p>		
	1A841513-3D	NAETC-6613-3D, Holder for PC board <a>					
U10	1A841514-3A	NAETC-6614-3A,Surround/front B speaker terminal PC board ass'y <d></d>					
	1A841514-3B	NAETC-6614-3B,Surround/front B speaker terminal PC board ass'y <p t=""></p>		NOTE: <1	3>: Black model only <t>: Asian model only</t>		
	1A841514-3C	NAETC-6614-3C,Surround/front B speaker terminal PC board ass'y <w r=""></w>		<(G>: Golden model only <w>: Worldwide model only</w>		
	1A841514-3D	NAETC-6614-3D,Surround/front B speaker terminal PC board ass'y <a>		<i< td=""><td>D>: 120V model only <a>: Australian model only</td></i<>	D>: 120V model only <a>: Australian model only		
U11	1A841515-3A	NAETC-6615-3A,Front/center speaker terminal PC board ass'y <d></d>		<l< td=""><td>P>: 230V model only <r>: Chinese model only</r></td></l<>	P>: 230V model only <r>: Chinese model only</r>		
	1A841515-3B	NAETC-6615-3B,Front/center speaker terminal PC board ass'y <p t=""></p>					
	1A841515-3C	NAETC-6615-3C,Front/center speaker terminal PC board ass'y <w r=""></w>					
	1A841515-3D	NAETC-6615-3D,Front/center speaker terminal PC board ass'y <a>					
U12	1A841517-3A	NAETC-6617-3A,Power transformer terminal PC board ass'y <d></d>					
	1A841517-3B	NAETC-6617-3B, Power transformer terminal PC board ass'y <p t=""></p>			NOTE: THE COMPONENTS INENTIFIED BY MARK		

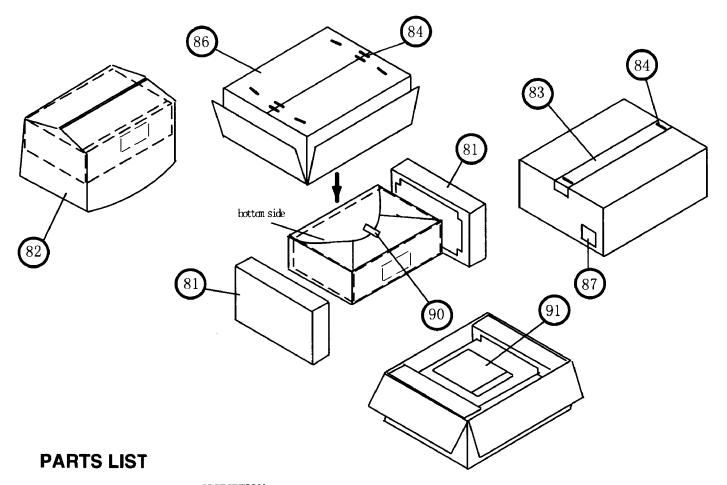
NOTE: THE COMPONENTS INENTIFIED BY MARK

ARE CRITICAL FOR RISK OF FIRE AND
ELECTRIC SHOCK. REPLACE ONLY WITH
PART NUMBER SPECIFIED.

1A841517-3C NAETC-6617-3C, Power transformer terminal PC board ass'y < W/R>

1A841517-3D NAETC-6617-3D,Power transformer terminal PC board ass'y <A>

PACKING VIEW



REF.NO.	PART NO.	DESCRIPTION	
81	29091881A	Pad	
82	29100153Y	1020x720,Polybag	
83	29110098	PP tape	
84	282301	Staple	
86	29053463	Carton box <d></d>	
	29053464	Carton box <p></p>	
	29053465	Carton box <t a="" r="" w=""></t>	
	29053466	Carton box <g></g>	
87	29362476	Label EAN <p a="" r="" t="" w=""></p>	
	29362477	Label EAN <g></g>	
	29362478	Label UPC <d></d>	
90	261504	Paper tape	
91	29100097-1A	350*250,Polybag	
	29365083	Warranty card <d></d>	
	29095866	Instruction sheet <d></d>	
	29342721A	Instruction manual E	
	29342722	Instruction manual U3 GSWD <p></p>	
	29342723	Instruction manual U3 FSI <p></p>	
	29342726	Instruction manual T <t w=""></t>	
	29342725	Instruction manual <d></d>	
	24140392A	RC-392M,remote controller	
	3010054	Battery	NOTE: : Black model only
	25055018	CV-K-1,Conversion plug <wt></wt>	<g>: Golden model only</g>
	25056005 or	CV-K-1 or	<d>: 120V model only</d>
	292115	FM antenna <p t="" w=""></p>	<p>: European model only</p>
	292142	FM antenna <d></d>	<t>: Asian model only</t>
	25065462	YAE21-0237,FM antenna adapter <t w=""></t>	<w>: Worldwide model only</w>
	232140	NMA-3057,AM loop antenna	<wt>: Taiwanese model only</wt>
			,